Subject Index—Volumes 238–249

A

Accessory nerve palsy after thoracotomy, **238**:237
Acetabuloplasty, threaded-cup, **241**:183
Acetabulum
  abnormalities in hip arthroplasty, **243**:126
  central fractures of, **246**:57
    occult, resulting in fracture-dislocation, **248**:240
  complex fractures of, **240**:9
  development in dislocated hips, **242**:98
  rotational osteotomy for severely dysplastic hip, **247**:127
Achilles tendon rupture repair with Marlex mesh, **238**:204
Acromioclavicular dislocation
  coracoid process transfer in, **242**:184
  screw fixation of, **243**:112
Acromioplasty, anterior
  effectiveness of, **247**:117
  failure of, **243**:106
  for subacromial impingement in young patients, **246**:111
Adamantinoma of tibia masked by fibrous dysplasia, **238**:294
AIDS, and risk of bone grafts, **240**:129
Air inclusion in bone cement, **248**:148
Ambulation, prosthetic, feasibility after major lower extremity amputations, **238**:219
Amputations
  historical review of, **243**:3
  lower extremity, and prosthetic usage, **238**:219
Anesthesia, regional, and thromboembolism prevention in hip surgery, **247**:163
Aneurysmal bone cyst, radiation therapy in, **243**:200
Angiomatosis of bone, familial diffuse cystic, **238**:211
Ankle
  Achilles tendon rupture repair with Marlex mesh, **238**:204
  arthroscopic laser surgery of, **242**:48
  arthroscopy of, progress in, **240**:210
  arthrosis in ballet dancers, **238**:233
  fractures of
    biodegradable internal fixation in, **238**:195
    open, treatment of, **240**:47
    osteopenia after, **245**:261
    postoperative stability in, **245**:246
  hemophilic arthropathy of, advanced, **242**:75
  subtalar dislocations, **238**:190
  tenosynovial lipochondromatosis of, **245**:220
  tibiotalar dislocations without fractures, **239**:207
  torsional strength of, **246**:266
Annular ligament reconstruction in recurrent radial head subluxation, **246**:131
Arthritis. *See also* Osteoarthritis; Rheumatoid arthritis
  salmonella, septic and aseptic, in sickle cell disease, **248**:261
  septic
    Myo*bacterium terrae* in, **238**:308
    polymicrobial, **241**:245
Arthrodesis
  of knee
    compression in, and assessment of bending stiffness, **242**:256
    intramedullary fixation for, **248**:87
  of shoulder
    external fixation in, **247**:97
    Moiré photography of, **238**:117
  of spine. *See* Spine, arthrodesis of
Arthrography
  comparison of radionuclide and roentgenographic techniques in, **245**:156
  in congenital dislocation of hip, **243**:148
  of posterior subtalar joint, **249**:248
Arthroplasty
  and drugs affecting bone growth into porous-coated implants, **249**:113
  elbow, cast immobilization after, **245**:117
  experimental, infections induced in, **241**:248
  of hallux, implant in, stress fractures after, **239**:211

Subject Index—Volumes 238–249

A

Accessory nerve palsy after thoracotomy, **238**:237
Acetabuloplasty, threaded-cup, **241**:183
Acetabulum
  abnormalities in hip arthroplasty, **243**:126
  central fractures of, **246**:57
    occult, resulting in fracture-dislocation, **248**:240
  complex fractures of, **240**:9
  development in dislocated hips, **242**:98
  rotational osteotomy for severely dysplastic hip, **247**:127
Achilles tendon rupture repair with Marlex mesh, **238**:204
Acromioclavicular dislocation
  coracoid process transfer in, **242**:184
  screw fixation of, **243**:112
Acromioplasty, anterior
  effectiveness of, **247**:117
  failure of, **243**:106
  for subacromial impingement in young patients, **246**:111
Adamantinoma of tibia masked by fibrous dysplasia, **238**:294
AIDS, and risk of bone grafts, **240**:129
Air inclusion in bone cement, **248**:148
Ambulation, prosthetic, feasibility after major lower extremity amputations, **238**:219
Amputations
  historical review of, **243**:3
  lower extremity, and prosthetic usage, **238**:219
Anesthesia, regional, and thromboembolism prevention in hip surgery, **247**:163
Aneurysmal bone cyst, radiation therapy in, **243**:200
Angiomatosis of bone, familial diffuse cystic, **238**:211
Ankle
  Achilles tendon rupture repair with Marlex mesh, **238**:204
  arthroscopic laser surgery of, **242**:48
  arthroscopy of, progress in, **240**:210
  arthrosis in ballet dancers, **238**:233
  fractures of
    biodegradable internal fixation in, **238**:195
    open, treatment of, **240**:47
    osteopenia after, **245**:261
    postoperative stability in, **245**:246
  hemophilic arthropathy of, advanced, **242**:75
  subtalar dislocations, **238**:190
  tenosynovial lipochondromatosis of, **245**:220
  tibiotalar dislocations without fractures, **239**:207
  torsional strength of, **246**:266
Annular ligament reconstruction in recurrent radial head subluxation, **246**:131
Arthritis. *See also* Osteoarthritis; Rheumatoid arthritis
  salmonella, septic and aseptic, in sickle cell disease, **248**:261
  septic
    Myo*bacterium terrae* in, **238**:308
    polymicrobial, **241**:245
Arthrodesis
  of knee
    compression in, and assessment of bending stiffness, **242**:256
    intramedullary fixation for, **248**:87
  of shoulder
    external fixation in, **247**:97
    Moiré photography of, **238**:117
  of spine. *See* Spine, arthrodesis of
Arthrography
  comparison of radionuclide and roentgenographic techniques in, **245**:156
  in congenital dislocation of hip, **243**:148
  of posterior subtalar joint, **249**:248
Arthroplasty
  and drugs affecting bone growth into porous-coated implants, **249**:113
  elbow, cast immobilization after, **245**:117
  experimental, infections induced in, **241**:248
  of hallux, implant in, stress fractures after, **239**:211

of hip. *See* Hip, arthroplasty of
of knee. *See* Knee, arthroplasty of
of shoulder
bipolar implants in, **249:**227
Neer total shoulder system in, **242:**188
Arthroscopic surgery, carbon dioxide laser in, **242:**43
Arthroscopy
of acute septic knees in children, **241:**209
of ankle, progress in, **240:**210
after anterior cruciate ligament reconstruction, **246:**217
of hip, **249:**44
Aspirin, and bone growth into porous-coated implant, **249:**113
Atlantoaxial joint
infectious subluxation in Grisel's syndrome, **244:**131
instability in rheumatoid arthritis, **241:**177
Australia, percutaneous nucleotomy in, **238:**104
Axillary nerve anatomy, **243:**100
Axis, traumatic spondylolisthesis of, **239:**47

B

Back
pain in, percutaneous nucleotomy in, **238:**9
shape of, in brace treatment of scoliosis, **240:**157
Bacterial counts in open fractures, **248:**227
Ballet dancers, degenerative joint disease in, **238:**233
Biceps brachii long head
role in humeral head stabilization, **244:**172
tendinitis of, **246:**117
Biodegradable materials
for internal fixation of ankle fractures, **238:**195
penetrating implant affecting growth plate, **241:**300
Biomechanics
analysis of Ilizarov external fixator, **241:**95
of bone transport by Ilizarov technique, **243:**71
of fracture healing in external fixation, **241:**24
isometricity of anterior cruciate ligament, **242:**247
knee torque after arthroplasty, **238:**174
patellofemoral pressures in anterior displacement of tibial tuberosity, **238:**183
Blood
coagulation disorders in spinal surgery, **245:**83
loss of, local, **240:**3
Blood transfusions
autologous
in revision hip arthroplasty, **245:**145
in shoulder surgery, **240:**137
extracorporeal hemolysis of blood in, **238:**241
Blount's disease, **246:**195
Bone
aneurysmal cyst of, radiation therapy in, **243:**200
assessment of structure in hip, **240:**200
cancellous, healing affected by motion, **245:**282
debridement in massive lower limb trauma, **243:**41
endosteal loss after hip arthroplasty, **245:**138
familial diffuse cystic angiomatosis of, **238:**211
familial expansile osteolysis, **248:**265
fibrin sealant affecting osteoinduction, **238:**282
heredity and osteoporosis, **240:**164
heterotopic formation of, **241:**265; **245:**261, 269
and erythrocyte sedimentation rate after hip arthroplasty, **248:**189
in spinal cord injuries, **242:**169
in childhood, **245:**303
hyperostosis induced by prostaglandin, **246:**300
metabolism disorders in severely handicapped patients, **245:**297
metastases in liposarcoma, detection with MRI, **243:**204
morphogenetic protein
in osteosarcoma cell line, **244:**258
and periosteal bone formation, **239:**299
and spinal fusion augmentation, **243:**266
xenogeneic, and augmentation of segmental defects, **243:**254
normal and heterotopic periosteum, **241:**265
periosteal bone formation, **239:**299
reaction to silicone implants, **245:**228
stiffness below tibial plateaus, **247:**193
tensions-tress effect on osteogenesis, **238:**249; **239:**263
transport by Ilizarov technique, **243:**71
tumor of. *See* Tumor
Bone grafts
in acetabular revision arthroplasty, **249:**30
autogeneic cancellous, in segmental defects, **243:**254
with bipolar hip arthroplasty in rheumatoid arthritis, **244:**188
early prophylactic, in high-energy tibial fractures, **240:**21
in femoral head necrosis, **249:**199
iliac crest, vascularized, after tumor resection, **247:**101
and immune response inhibition in osteoarticular shell allografts, **243:**235
osteochondral, and estimation of femoral condyle size, **246:**225
periosteal, and neochondrogenesis in immobilized limb, **248:**278
risk in AIDS, **240:**129

of ibia, posterolateral, radiography of, **238:**209
for tibial defects in knee arthroplasty, **248:**66, 93
vascularized autografts in lower limb trauma, **243:**65
Bone marrow stroma, osteogenic stem cells in, **240:**270
Brace treatment
abduction, for infants with congenital hip dislocation, **246:**22
cast brace in tibial plateau fractures, **242:**26
knee
for anterior laxity, **241:**213
for valgus protection, **247:**175
in radius and ulnar fractures, Rush pins with, **240:**236
in scoliosis, back shape in, **240:**157
Bridge grafts, flexor tendon, **242:**51
Bunionette, painful, metatarsal osteotomy in, **243:**172

C

Calcification
heterotopic. *See* Bone, heterotopic formation of
and inhibition of hydroxyapatite formation, **247:**279
Calcinosis, tumoral, in infants, **242:**272
Calcium in isolated growth-plate chondrocytes, regulation of, **242:**285
Calcium phosphate ceramic, macroporous, for spine fusion, **248:**169
Callotasis method for limb-lengthening, **241:**137
Carbon dioxide laser in arthroscopic surgery, **242:**43
Carpal tunnel syndrome, dermatitis-sympathetic dysfunction in, **247:**124
Cartilage
articular, ultrasonically induced cavitation affecting, **245:**288
calcium pool regulation in chrondrocytes, **242:**285
cultured chondrocytes from healthy and osteoarthritis cartilage, **242:**294
detachment from intervertebral disk, simulating spinal cord tumor, **238:**4
neochondrogenesis in periosteal grafts, immobilization affecting, **248:**278
Cartilaginous tumors, diagnostic difficulties in, **240:**281
Cast use
brace in tibial plateau fractures, **242:**26
in fixation of Colles' fractures, compared to external fixation, **241:**57
in immobilization after elbow arthroplasty, **245:**117
Cavitation, ultrasonically induced, affecting articular cartilage, **245:**288
Cavovarus foot deformity, **247:**27
Cement, bone, air inclusion in, **247:**148
Ceramic
macroporous calcium phosphate for spine fusion, **248:**169
silicone nitride, affecting cells and tissue, **244:**293
Cerebral palsy, **247:**55
transposition of posterior tibial tendon in, **245:**223
Cervical spinal canal stenosis, brachydactyly with, **247:**80
Cervial spine
anterior discectomy in radiculopathy, **246:**92
atlantoaxial instability in rheumatoid arthritis, **241:**177
fracture of C4 and C5 with spinal cord transection, **248:**158
Grisel's syndrome of, **244:**131
subluxation in, **240:**141
halo traction apparatus for, **239:**4
application and maintenance of, **239:**12
injuries in multiple trauma, **239:**19
magnetic resonance imaging of degenerative disease in, **239:**109
occipitoatlantoaxial fusion with rectangular rod, **239:**136
occipitoatlantoaxial injuries, **239:**53
quadrangular fragment fracture, **239:**40
rheumatoid arthritis of, **239:**121
vertical settling in, **239:**128
spondylolisthesis of axis, traumatic, **239:**47
spondylosis of
pathogenesis of, **239:**69
surgical management of, **239:**94
subaxial injuries, **239:**30
Charcot-Marie-Tooth disease, pes cavus in, **246:**273
Charnley low-friction hip arthroplasty, **246:**48
Chemonucleolysis compared to surgical discectomy, **244:**158
Chevron metatarsal osteotomy, **243:**180
Chondrocytes
calcium regulation in, **242:**285
cultured in vitro, from healthy and osteoarthritis cartilage, **242:**294
Chondrodiatasis, **241:**117
hemichondrodiatasis, **241:**128
Chondroma, soft-part, congenital, **244:**244
Chondrosarcoma, diagnostic difficulties in, **240:**281
Chromosome studies. See Genetics
Chymopapain nucleolysis compared to surgical discectomy, **244:**158

Clavicle
fracture of, treatment of, **245:**89
ossification disorder with osteoma cutis, **246:**106
Clostridium perfringens in polymicrobial septic arthritis, **241:**245
Coagulation disorders in spinal surgery, **245:**83
Coleman, Sherman, achievements of, **247:**13
Colles' fracture, external fixation in, **241:**57
Compartment syndrome
in arm, after venipuncture in hemophilia, **244:**176
forearm, during traction in distal radius fracture, **241:**234
in lower leg, **240:**97
Compression stockings, graded, and thromboembolism prevention in hip surgery, **247:**163
Computed tomography
in nondiaphyseal osteoid osteoma, **243:**230
in orthopedic radiology, **242:**32
of posterior lumbar interbody fusion, **242:**158
single-photon emission for detection of femoral head necrosis, **247:**152
Continuous passive motion, **242:**12
compared to physical therapy in knee arthroplasty, **244:**239
compared to tendon immobilization, **244:**265
Contracture, flexion, in knee arthroplasty, **248:**129
Coracoid process
relation to musculocutaneous nerve, **244:**166
transfer for acromioclavicular dislocation, **242:**183
Corticosteroids
and bilateral necrosis of lateral femoral condyles, **243:**166
osteoporosis from, microanatomy in, **243:**294
and posttraumatic joint stiffness in rabbit, **242:**277
Cotrel-Dubousset instrumentation in neurofibromatosis spine curves, **245:**19, 24
Cruciate ligament
anterior
chronic instability management, **245:**188
isometricity of, **242:**247
pathologic laxity control with knee braces, **241:**213
reconstruction of
arthroscopy of tendon grafts in, **246:**217
patella tendon in, **244:**222
posterior
disruption of, natural history of, **246:**208
retention in knee arthroplasty affecting gait, **248:**21
Cyst of bone, aneurysmal, radiation therapy in, **243:**200
Cystic angiomatosis, of bone, familial diffuse, **238:**211

D

Debridement of bone in massive lower limb trauma, **243:**41
Decompression
in cervical radiculopathy, **246:**92
in femoral head necrosis, **249:**199
compared to pulsed electromagnetic fields, **249:**209
of lumbar nerve roots, **245:**69
Dermatitis-sympathetic dysfunction in carpal tunnel syndrome, **237:**124
Desmoplastic fibroma in bone with fibrous dysplasia, **247:**272
Dexamethasone, and posttraumatic joint stiffness in rabbit, **242:**277
Diabetes mellitus, talonavicular dislocations and midfoot arthropathy in, **240:**266
Disability, postoperative, in spinal surgery, **244:**147
Discectomy
cervical, anterior, in radiculopathy, **246:**92
compared to chemonucleolysis, **244:**158
percutaneous lateral. *See* Nucleotomy, percutaneous
transcutaneous, laser surgery in, **242:**48
Dislocations. *See specific anatomic sites of dislocations*
Distraction
and callotasis for limb-lengthening, **241:**137
epiphyseal
chondrodiatasis in, **241:**117
hemichondrodiatasis in, **241:**128
and Ilizarov method for bone transport, **243:**71
in leg lengthening, **242:**137
and osteogenesis with external fixators, **241:**106
Dyschondroplasia, leg lengthening in, **242:**137

E

Ectopic bone formation. *See* Bone, heterotopic formation of
Elbow
arthroplasty of, cast immobilization after, **245:**117
arthroscopic laser surgery of, **242:**48
dislocations with intraarticular fractures, **246:**126
flexorplasty of, **245:**110
hemophilic arthropathy of, advanced, **242:**65

Electrical stimulation in femoral head necrosis
pulsed electromagnetic fields in, **246**:172; **249**:209
and results of surgery, **249**:199
Electromyography of supraspinatus muscle, **245**:102
Embolization, preoperative, in osseous metastases, **238**:302
Endosteal bone loss after hip arthroplasty, **245**:138
Epiphyseal distraction
chondrodiatasis in, **241**:117
hemichondrodiatasis in, **241**:128
Erratum, **248**:311
Erythrocyte sedimentation rate, and heterotopic bone formation after cemented hip arthroplasty, **248**:199
Estrogen affecting skeletal muscle, **243**:306
Evoked potentials, somatosensory
in hip arthroplasty revision, **243**:138
in lumbar nerve root decompression, **245**:69
Ewing's sarcoma, diagnostic difficulties in, **240**:281
Exostoses in multiple hereditary osteochondromata, **239**:222
External fixation
characteristics of, **241**:5
in chondrodiatasis, **241**:117
in Colles' fractures, **241**:57
in complicated extremity deformities, **241**:166
device of Hippocrates, **241**:3
and distraction osteogenesis, **241**:106
in femoral fractures, **241**:83
fracture healing in, **241**:24
controlled micromovement affecting, **241**:36
halo traction apparatus in, **238**:4
application and maintenance of, **239**:12
in hemichondrodiatasis, **241**:128
Ilizarov fixator in, **241**:95. *See also* Ilizarov external fixator
incisions for halo pin insertion in, **246**:100
in open tibial shaft fractures, compared to plates, **241**:89
Orthofix fixator in
in complicated extremity deformities, **241**:166
in open tibial fractures, **241**:224
in pelvic disruption, **241**:66
pin fixators in, **241**:9
and mechanical performance of clamps, **248**:246
ring fixators in, **241**:11
in shoulder arthrodesis, **247**:97
theory and principles of, **241**:5
unilateral, frame stiffness in, **241**:48

F

Fat emboli in bilateral knee arthroplasty, **248**:112
Femur
bilateral necrosis of lateral condyles, steroid-induced, **243**:166
condyle size estimation, **246**:225
distal fractures
closed treatment of, **240**:115
complex, **240**:77
external fixation of fractures, **241**:83
intertrochanteric fractures, unstable, **245**:156
intraoperative fractures in hip arthroplasty, **248**:177
necrosis of head
conservative treatment of, **249**:209
core decompression and grafting in, **249**:199
detection by MRI and SPECT, **247**:152
diagnostic algorithm for, **249**:176
magnetic resonance imaging of, **244**:60
in pigs, **244**:272
microangiography of, **246**:186
multimodality approach to, **240**:181
osteotomy in, **249**:183, 219
pulsed electromagnetic fields in, **246**:172; **249**:209
total hip arthroplasty in, **244**:198
new form of internal fixation in fracture of neck, **248**:181
osteotomy of upper end, **249**:4
proximal dimension changes in hip rotation, **240**:194
reaming of
porosity after, **246**:305
temperature in, **241**:200
subtrochanteric fractures, **238**:122
supracondylar fracture after GUEPAR knee arthroplasty, **241**:221
trabecular microfractures in, **244**:208
venous drainage studies in, **241**:251
Fibrin sealant, and osteoinduction, **238**:282
Fibroma, desmoplastic, in bone with fibrous dysplasia, **247**:272
Fibrous dysplasia of bone, desmoplastic fibroma with, **247**:272
Flexion after knee arthroplasty, **247**:168; **248**:129
Flexorplasty of elbow, **245**:110
Fluid loss, local, **240**:3
Flunixin, and joint stiffness after fractures, **247**:306
Fluoroscopy
radiation exposure from, **248**:257
in tibial torsion and rotational deformity assessment, **245**:199

Foot. *See also* Ankle
arthrography of posterior subtalar joint, **249:**248
bilateral necrosis of first metatarsal head in adolescence, **246:**282
bone reaction to silicone implant, **245:**228
cavovarus deformity, **247:**27
degenerative changes in, **239:**306
early and late reconstruction of, **243:**86
forefoot arthroplasty, **248:**213
isolated injury of second tarsometatarsal joint, **248:**210
metatarsal osteotomy
chevron, **243:**180
for painful bunionette, **243:**172
metatarsophalangeal arthrosis in ballet dancers, **238:**233
midtarsal fracture-subluxation, occult, **243:**195
pes cavus in Charcot-Marie-Tooth disease, **246:**273
reconstruction with free tissue transfer, **242:**269
stress fractures after implant arthroplasty of hallux, **239:**211
talipes equinovarus
posteromedial release in, **242:**265
results of surgery in, **248:**219
talonavicular dislocations in diabetes, **240:**226
in tibialis posterior tendon dysfunction, **239:**196
transposition of posterior tibial tendon, **245:**223
trauma management in, **240:**105
Wilson's osteotomy for hallux valgus, **240:**221
Fracture. *See also specific anatomic sites of fracture*
and effects of dexamethasone in rabbits, **242:**277
effects of piroxicam and flunixin in, **247:**306
external fixation of. *See* External fixation
healing of. *See* Healing, in fractures
interactions in extremities, **240:**244
internal fixation of. *See* Internal fixation
in massive trauma of lower extremity. *See* Let trauma, massive
open, bacterial counts in, **248:**227
pathologic, scoring system for risk factors in, **249:**256
spiral, experimental, **243:**189
stress
incidence after pretraining activity, **245:**256
spinal, recurrence after surgery, **247:**87
of sacrum, **243:**184
Frozen shoulder syndrome, office management of, **242:**177
Fusion procedures. *See* Arthrodesis

G

Gait
with above-knee prosthesis and CAT-CAM socket, **239:**249
analysis after cruciate ligament-sparing arthroplasty, **248:**21
changes after knee arthroplasty, **238:**174
after high tibial osteotomy, **239:**185
stride characteristics after pain relief, **239:**191
Ganglioneuroma of sacrum, **246:**102
Genetics
chromosome studies
in desmoplastic fibroma in bone with fibrous dysplasia, **247:**272
of giant-cell tumors of bone, **240:**250
familial diffuse cystic angiomatosis of bone, **238:**211
familial expansile osteolysis, **248:**265
heredity and osteoporosis, **240:**164
multiple hereditary osteochondromata, **239:**222
in neurofibromatosis, **245:**49
and pedigree of anomalies with cervical stenosis, **247:**80
and Perthes' disease in Manchester terriers, **244:**281
Genicular artery, superior lateral, sacrifice in knee arthroplasty, **248:**145
Genu valgum, and knee orthoses for protection, **247:**175
Genucom Knee Analysis System, **245:**216
Giant-cell tumor of bone
benign, with pulmonary metastases, **243:**208
cytogenetics of, **240:**250
in proximal humerus
and bone reconstruction after resection, **247:**101
and prosthetic replacement after resection, **247:**106
Glenohumeral movements during abduction of arm, **238:**107
Glenoid-labral socket, **243:**122
Gonadectomy affecting skeletal muscle, **243:**306
Grafts
bone. *See* Bone grafts
flaps used in lower limb reconstruction, **243:**57
free tissue flaps in foot reconstruction, **242:**269
tendon
in anterior cruciate ligament reconstruction, **244:**222
in bridging of flexor tendon defect, **242:**51
Greek orthopedic surgery
in central acetabular fractures, **245:**57

in congenital dislocation of hip
abduction brace for infants in, **246:**22
one-stage procedure for older children in, **246:**30
and Hippocrates on shoulder dislocations, **246:**4
hip arthroplasty
Charnley low-friction technique, **246:**48
McKee-Farrar technique, **246:**39
knee arthroplasty, **246:**81
in lumbar spinal stenosis syndrome, **246:**70
microsurgery in, **246:**65
Putti-Platt procedure reconsidered, **246:**8
wedge osteotomy of radius in wrist arthrosis, **246:**16
Grisel's syndrome, **240:**141; **244:**131
Growth plate
chondrocytes in, calcium regulation in, **242:**285
penetrating biodegradable implant affecting, **241:**300
Growth of tissue, tension-stress effect on, **238:**249; **239:**263

H

Hallux valgus, Wilson's osteotomy in, **240:**221
Halo fixator pins, incisions for insertion of, **246:**100
Halo traction apparatus, **238:**4
application and maintenance of, **239:**12
Hamate hook fracture, surgical approach to, **239:**217
Hand. *See also* Wrist
degenerative changes in, **239:**306
flexor tenosynovitis from *Mycobacterium marinum,* **238:**288
replantation of digits in, and leeches for venous drainage, **245:**133
surgical approach to hook of hamate, **239:**217
Hangman's fracture, **239:**47
Healing
assessment in compression arthrodesis of knee, **242:**256
of cancellous bone, motion affecting, **245:**282
and continuous passive motion of joints, **242:**12
in fractures
biology of, **248:**283, 294
current concepts of, **249:**265
in external fixation, **241:**24
controlled micromovement affecting, **241:**36
prediction in closed tibial shaft fractures, **245:**239
Heart
isoenzyme values after total joint arthroplasty, **242:**232
transplantation of, hip fracture after, **245:**160
Hemichondrodiatasis for limb-lengthening, **241:**128
Hemolysis, extracorporeal, of blood transfusions, **238:**241
Hemophilia
arthropathy in
advanced, surgical management of, **242:**60
knee arthroplasty in, **248:**98
and compartment syndrome in arm after venipuncture, **244:**176
sepsis with psuedocyst in, **244:**254
Hemophilus parainfluenza infection after knee arthroplasty, **243:**169
Hereditary conditions. *See* Genetics
Herniated disk, percutaneous nucleotomy in, **238:**9
Heterotopic bone. *See* Bone, heterotopic formation of Hip
arthroplasty
acetabular abnormalities in, **243:**126
anthropometric femoral prosthesis in, **242:**104; **249:**60
and autotransfusions in revision surgery, **245:**145
bipolar
failure of, **240:**206
in rheumatoid arthritis, **244:**188
cardiac isoenzyme values after, **242:**232
cemented
analysis of autopsy specimens, **249:**129
heterotopic bone formation in, and erythrocyte sedimentation rate, **248:**189
and risk factors for failure, **240:**173
cementless
initial stability of, **248:**200
press-fit cup in, **249:**12
stem fit affecting, **247:**138
Charnley low-friction technique, **246:**48
collar and distal stem fixation in, **239:**145
combination of cementless and cemented components in, **245:**150
cementless socket with cemented femoral component, **249:**21
and comparison of radionuclide and roentgenographic arthrography, **245:**156
custom implants in, **249:**79
endosteal bone loss after, **245:**138
evaluation in multicenter clinical trials, **249:**48
intraoperative femur fractures in, **248:**177

intraoperative manufacture of prosthesis in, **249:**97
long-stem femoral prosthesis in, **249:**159
McKee-Farrar technique, **246:**39
and membrane surrounding bone-cement interface, **244:**182
micromovement and acoustic emission studies, **249:**122
noncemented acetabular revision with allograft bone, **249:**30
noncustom prostheses in, **249:**56
in osteonecrosis of femoral head, **244:**198
preoperative motion in, and risk of sciatic nerve palsy, **241:**197
and shaping of implant to patient, **249:**73
short-stem uncemented femoral component in, **249:**169
somatosensory evoked potentials in revision surgery, **243:**138
survival of cemented femoral component in, **243:**143
survivorship analysis of anatomic medullary locking stems in, **249:**141
threaded cup acetabuloplasty in, **241:**183
thromboembolism prevention in, **247:**163
arthroscopy of, **249:**44
assessment of bone structure in, **240:**200
congenital dislocation of, **247:**15
abduction brace for infants in, **246:**22
acetabular development in, **242:**98
arthrography in, **243:**148
one-stage procedure for older children in, **246:**30
total hip arthroplasty in, **242:**195
coxarthrosis in ballet dancers, **238:**233
dysplasia of
congenital, **247:**3
and rotational acetabular osteotomy in adolescents or adults, **247:**127
fractures of
closed treatment of, **240:**115
epidemiology in Siena, Italy, **238:**131
in heart transplant patient, **245:**160
intertrochanteric
medial displacement osteotomy in, **245:**169
and subcapital fracture after internal fixation, **245:**165
unstable, **245:**156
types in Malmö, Sweden, **238:**139
in women, **246:**150
hemophilic arthropathy of, advanced, **242:**66
heterotopic ossification in spinal cord injuries, **242:**169
magnetic resonance imaging in ischemia, **244:**60
osteoarthritis in Japan, **241:**190
Perthes' disease of
inheritance in Manchester terriers, **244:**281
and somatomedin-C activity, **244:**217
pigmented villonodular synovitis of, **239:**154
postoperative thromboembolism prophylaxis, **242:**212; **247:**163
rotation affecting proximal femoral dimensions, **240:**194
strength measurements in age groups, **246:**136
Hippocrates
external fixation device, **241:**3
on shoulder dislocations, **246:**4
Histology in assessment of hip bone structure, **240:**200
Humerus
diaphyseal fractures of shaft in metastatic bone disease, **248:**231
distal fracture, intraarticular, **241:**238
segmental defect prosthesis for, **248:**231
stabilization of head affected by long head of biceps brachii, **244:**172
tumor resection at proximal end
and bone reconstruction, **247:**101
and prosthetic replacement, **247:**106
Hyaluronate, intraarticular, in experimental osteoarthritis
biochemical results of, **241:**278
morphological findings in, **241:**286
Hydraulic distention in frozen shoulder syndrome, **242:**177
Hydroxyapatite
inhibition of formation, **247:**279
interporous, as graft in tibial plateau fractures, **240:**53
Hyperostosis, prostaglandin-induced, **246:**300

I

Ibuprofen, and bone growth into porous-coated implant, **249:**113
Identifit hip prosthesis, **249:**97
Ilium, subacute osteomyelitis of, **248:**254
Ilizarov external fixator, **241:**95
and bone transportation technique, **243:**71
in complicated extremity deformities, **241:**166
and histology of distraction osteogenesis, **241:**106
in tibial nonunions with bone loss, **241:**146
Immobilization
cast, after elbow arthroplasty, **245:**117

compared to continuous passive motion, **244:**265
and neochondrogenesis in periosteal grafts, **248:**278
Immune response inhibition in osteoarticular shell allografts, **243:**235
Impedance plethysmography in deep vein thrombosis detection, **248:**195
Indomethacin, and bone growth into porous-coated implant, **249:**113
Infection
and arthroscopy in acute septic knees in children, **241:**209
and bacterial counts in open fractures, **248:**227
flexor tenosynovitis from *Mycobacterium marinum*, **238:**288
and Grisel's syndrome, **240:**141; **244:**131
Hemophilus parainfluenzae after knee arthroplasty, **243:**169
in knee arthroplasty. *See* Knee, arthroplasty, infected
Mycobacterium terrae in septic arthritis and osteomyelitis, **238:**308
in open fracture wounds, **243:**36
polymicrobial septic arthritis, **241:**245
in proximal ulna nonunion, **240:**168
of pseudocyst in hemophilia, sepsis in, **244:**254
sacroiliac, pyogenic, **246:**146
Salmonella septic and aseptic arthritis in sickle cell disease, **248:**261
subacute osteomyelitis of ilium, **248:**254
of tibial fractures, in nonunion, **245:**233
Injury prevention, role of orthopedist in, **240:**5
Insall operation in patellar disorders, **248:**61
Internal fixation
biodegradable, in ankle fractures, **238:**195
of intertrochanteric hip fractures, subcapital fractures after, **245:**165
intramedullary
in infected tibia fractures, **245:**233
in knee arthrodesis, **248:**87
new device in proximal tibial osteotomy, **246:**250
new method in femoral neck fractures, **248:**181
of pelvic fractures, **242:**83
Italy, hip fracture epidemiology in Siena, **238:**131

J

Japan, osteoarthritis of hip in, **241:**190

K

Kates forefoot arthroplasty, **248:**213
Knee. *See also* Cruciate ligament; Patella
anteroposterior drawer measurements, **247:**232
arthrodesis
compression in, and assessment of bending stiffness, **242:**256
intramedullary fixation for, **248:**87
arthroplasty
alignment of tibial component in, **248:**135
bilateral, fat emboli in, **248:**112
bone grafting of tibial defects in, **248:**93
and bone stiffness below tibial plateaus, **247:**193
cardiac isoenzyme values after, **242:**232
and clinical rating system of Knee Society, **248:**13
continuous passive motion in, **244:**239
cruciate ligament-sparing, gait analysis with, **248:**21
evaluation with roentgenography, **248:**9
failure of femorotibial components in, **248:**15
flexion after, **247:**168, **248:**129
gait changes and torque after, **238:**173
in Greece, **246:**81
in hemophilic arthropathy, **248:**98
infected
Hemophilus parainfluenzae in, **243:**169
and intramedullary fixation for arthrodesis, **248:**87
results of treatment options in, **248:**120
revision in, **238:**159
and spacer block in revision surgery, **248:**57
treatment of, **245:**173
intramedullary alignment guides in, **248:**50
medial unicompartmental, **239:**161
noncemented, load transfer in, **239:**168
in osteoarthritis, **238:**167
with osteopetrosis, **247:**202
patellar clunk syndrome after, **241:**203
patellar tendon rupture after, **244:**233
porous-coated, bone ingrowth in, **239:**178
posterior stabilization and rotational stability in, **242:**241
prevention of deep vein thrombosis in, **248:**152
in psoriasis, **248:**108
pull-out strength of screws and pegs in, **247:**220
results in younger patients, **248:**27
rotating-bearing patellar prostheses in, **248:**34
sacrifice of superior lateral geniculate artery in, **248:**145
with severe tibial bone loss
bone grafts in, **248:**66

cementless reconstruction in, **248:**80
modular metal wedges in, **248:**71
and stride characteristics after pain relief, **239:**191
supracondylar fracture of femur after, **241:**221
wear of patellar components in, **246:**260
arthroscopic laser surgery of, **242:**46
arthroscopy in acute sepsis in children, **241:**209
arthrosis
in ballet dancers, **238:**233
and gait after high tibial osteotomy, **239:**185
braces in anterior laxity, **241:**213
function after Maquet dome high tibial osteotomy, **243:**280
Genucom Analysis System, **245:**216
hemophilic arthropathy of, advanced, **242:**67
limb-sparing surgery in tumors of proximal tibia, **239:**231
magnetic resonance imaging of, **244:**29
meniscal suture in dogs, **243:**286
orthoses for valgus protection, **247:**175
osteoarthritis of, high tibial osteotomy in, **243:**157; **245:**179; **248:**4
osteoblastoma of patella, **243:**216
pain in
anterior, **246:**234
in middle age, **245:**210
pigmented villonodular synovitis of, **247:**208
proximal realignment for patellar disorders, **248:**61
rating system for sports activity, **246:**238
steroid-induced bilateral necrosis of lateral femoral condyles, **243:**166
in tibia vara, **246:**195

L

Laminplasty in cervical spondylosis, **239:**94
Laminectomy in cervical spondylosis, **239:**94
Laser, carbon dioxide, in arthroscopic surgery, **242:**43
Learning disabilities in neurofibromatosis, **245:**43
Leeches for venous drainage in digital replantation, **245:**133
Leg lengthening, **247:**38
and bone transport by Ilizarov technique, **243:**71
callotasis in, **241:**137
chondrodiatasis in, **241:**117
in dyschondroplasia, **242:**137
and healing in tibial metaphysis and diaphysis, **247:**297
Leg trauma, massive
amputations in, **243:**3
bone debridement in, **243:**41
and bone transport by Ilizarov technique, **243:**71
early and late foot reconstruction in, **243:**86
and infection in open fractures, **243:**36
initial care of, **243:**20
management of open joint injuries in, **243:**48
reconstruction vs amputation in, **243:**17
decision making in, **243:**92
and reflex sympathetic dystrophy, **243:**80
soft-tissue reconstruction in, **243:**57
vascular injury in, **242:**30
vascularized bone autografts in, **243:**65
Lengthening of limbs. *See* Leg lengthening
Letters to the editor, **240:**311, **241:**309; **242:**311, **244:**309, **245:**311, **248:**310, **249:**285
Lipochondromatosis, tenosynovial, **245:**220
Liposarcoma
juxtacortical, **243:**225
skeletal metastases in, detection with MRI, **243:**204
Lisfranc joint injuries, **248:**210
Lumbar nerve roots, decompression of, **245:**69
Lumbar spinal canal stenosis, surgery in, **246:**70
Lumbar spine
multiple osteoid osteomas of L5, **248:**163
nucleotomy of, percutaneous, **238:**9
radiography of posterior interbody fusion, **242:**158
Luque instrumentation
in neuromuscular spinal deformities, **242:**164
short closed wire loops in, **247:**90

M

Magnetic resonance imaging
in anterior tibialis muscle herniation, **244:**249
applications of, **244:**3
in cervical degenerative disease, **239:**109
in childhood, **244:**119
in femoral head osteonecrosis, **247:**152
of hip, in ischemia, **244:**60
of ischemic femoral head in pigs, **244:**272
of knee, **244:**29
in neoplasms, **244:**101
in oncogenic osteomalacia, **244:**305
overview of, **244:**17
physical principles of, **244:**7
in pseudomeningocele, **247:**74
of shoulder, **244:**48
of skeletal metastases in liposarcoma, **243:**204
of spine, **244:**78

Maquet high tibial osteotomy, **243:**280
in osteoarthritis of knee, **245:**179
Marlex mesh in Achilles tendon rupture repair, **238:**204
McKee-Farrar hip arthroplasty, **246:**39
Meniscal suture in dogs, **243:**286
Metabolism of bone in severely handicapped patients, **245:**297
Metatarsal head
first, bilateral necrosis in adolescence, **246:**282
resection arthroplasty, **248:**213
Metatarsal osteotomy
chevron, in metatarsus primus varus, **243:**180
medial displacement, for painful bunionette, **243:**172
Microangiography in femoral head necrosis, **246:**186
Microfracture in femur, trabecular, **244:**208
Microsurgery, orthopedic, in Greece, **246:**65
Mineralization, and inhibition of hydroxyapatite formation, **247:**279
Moiré photography of shoulder arthrodesis position, **238:**117
Morphine, epidural, after posterior spinal fusion, **249:**223
Motion
and cancellous bone healing, **245:**282
continuous passive. *See* Continuous passive motion
controlled micromovement affecting fracture healing, **241:**36
preoperative, and sciatic nerve palsy after hip arthroplasty, **241:**197
Muscle
herniation diagnosis with MRI, **244:**249
pressure and EMG studies, supraspinatus, **245:**102
sex hormones affecting, **243:**306
Musculocutaneous nerve anatomy, **244:**166
Mycobacterium
marinum, and flexor tenosynovitis, **238:**288
terrae, in septic arthritis and osteomyelitis, **238:**308
Myelopathy in cervical spondylosis, surgery in, **239:**94

N

Nail-patella syndrome, shoulder girdle dysplasia with, **238:**112
Nailing
interlocking nails in
distal screw targeting of, **238:**245
in intramedullary fixation of tibial fractures, **240:**87
intramedullary, femoral porosity after, **246:**305
Necrosis
femoral
of head. *See* Femur, necrosis of head
of lateral condyles, bilateral, **243:**166
of first metatarsal head, bilateral, in adolescence, **246:**282
Neer prosthesis
in total shoulder arthroplasty, **242:**188
after tumor resection in proximal humerus, **247:**106
Nerve
accessory nerve palsy after thoracotomy, **238:**237
axillary nerve anatomy, **243:**100
cervical radiculopathy, **246:**92
in spondylosis, surgery in, **239:**94
compression of sympathetic nerve fibers in carpal tunnel syndrome, **247:**124
decompression of lumbar nerve roots, **245:**69
musculocutaneous nerve anatomy, **244:**166
sciatic nerve palsy risk after hip arthroplasty, **241:**197
ulnar nerve transposition, submuscular, **238:**225
Neuroepithelioma, malignant, **243:**220
Neurofibromatosis
classic article on, **245:**3
and congenital pseudarthrosis of tibia, **245:**16
Cotrel-Dubousset instrumentation of spinal curves in, **245:**19, 24
gene linkage in, **245:**49
learning problems in, **245:**43
overview of, **245:**10
scoliosis surgery in, **245:**53
spinal deformities in, **245:**29
Neuropathic joints in diabetic foot, **240:**226
Nucleotomy, percutaneous, **238:**9
automated technique in, **238:**64
curved cannula in, **238:**71
early experience with, **238:**77
results in 200 patients, **238:**98
discoscopy with, **238:**35
early experience with, **238:**50
experience in Australia, **238:**104
follow-up studies of, **238:**92
imaging techniques in evaluation of candidates for, **238:**83
results in 225 patients, **238:**56
review of 100 patients, **238:**24
techniques developed in, **238:**43

O

Occipitoatlantoaxial complex
fusion with rectangular rod, **239:**136
traumatic lesions of, **239:**53

Onycho-osteodysplasia, hereditary, shoulder girdle in, **238:**112
Orchiectomy affecting skeletal muscle, **243:**306
Orthofix system
  in complicated extremity deformities, **241:**166
  in open tibial fractures, **241:**224
Orthopedic surgery, trends in, **242:**4
Ossification
  clavicle disorder with osteoma cutis, **246:**106
  heterotopic. *See* Bone, heterotopic formation of
Osteoarthritis
  and bone stiffness below tibial plateaus, **247:**193
  cultured cartilage cells in, **242:**294
  experimental, intraarticular hyaluronate in
    biochemical results of, **241:**278
    morphological findings in, **241:**286
  of hip, in Japan, **241:**190
  of knee
    arthroplasty in, **238:**167
    high tibial osteotomy in, **243:**157; **245:**179; **248:**4
  osteopetrosis with, knee arthroplasty in, **247:**202
Osteoblastoma
  diagnostic difficulties in, **240:**281
  of patella, **243:**216
  of pelvic, **247:**261
Osteoblasts, origin of, **240:**270
Osteochondral grafts, and estimation of femoral condyle size, **246:**225
Osteochondromata, multiple hereditary, **239:**222
Osteoclasts
  origin of, **239:**285; **240:**270
  periosteal, **241:**265
Osteogenesis
  imperfecta, **242:**120
  inducted by external fixation, **241:**106
  in periosteal cells, **241:**265
  and stem cells in marrow stroma, **240:**270
  tension-stress effect on, **238:**249; **239:**263
Osteoinduction, fibrin sealant affecting, **238:**282
Osteolysis, familial expansile, **248:**265
Osteoma
  cutis, with clavicle ossification disorders, **246:**106
  osteoid
    diagnostic difficulties in, **240:**281
    multiple, of fifth lumbar vertebra, **248:**163
    nondiaphyseal, in childhood, **243:**230
    of pelvis, **247:**261
Osteomalacia, oncogenic, **244:**305
Osteomyelitis
  of ilium, subacute, **248:**254
  Mycobacterium terrae in, **238:**308
Osteonecrosis. *See* Necrosis
Osteopenia
  after ankle fractures, **245:**261
  posttraumatic, **240:**244
  reduction in plating of fractures, **246:**293
  in severely handicapped patients, **245:**297
Osteopetrosis, osteoarthritis with, knee arthroplasty in, **247:**202
Osteoporosis
  and heredity, **240:**164
  microanatomy in, **243:**294
Osteosarcoma
  in adults, **240:**261
  cell line producing bone morphogenetic protein, **244:**258
  diagonostic difficulties in, **240:**281
  and vitamin D synergism with chemotherapeutic drugs, **247:**290
Osteotomy
  in femoral head necrosis, **249:**183, 219
  high tibial
    evaluation of patients for, **243:**157
    gait after, **239:**185
    Maquet dome, **243:**280
    in osteoarthritis of knee, **245:**179; **248:**4
  medial displacement
    metatarsal, in painful bunionette, **243:**172
    in unstable intertrochanteric fractures, **245:**169
  metatarsal, in metatarsus primus varus, **243:**180
  pelvic support, **249:**4
  proximal tibial, new fixation device in, **246:**250
  rotational acetabular, for dysplastic hip in adolescence or adults, **247:**127
  upper femoral, **249:**4
  wedge, of radius, in wrist conditions, **246:**16
  Wilson's, in hallux valgus, **240:**221
Ovariectomy affecting skeletal muscle, **243:**306

P

Paget's disease of bone, vitamin D metabolism in, **243:**275
Pain
  in knee
    anterior, **246:**234
    in middle age, **245:**210
  relief of, stride characteristics after, **239:**191
  wrist, management with wedge osteotomy of radius, **246:**16
Patella
  clunk syndrome after knee arthroplasty, **241:**203
  lateral facet syndrome of, **238:**148
  nail-patella syndrome with shoulder dysplasia, **238:**112
  osteoblastoma of, **243:**216

Patellar tendon
grafts in anterior cruciate ligament reconstruction, **246:**217
rupture after total knee arthroplasty, **244:**233
vascularized graft in anterior cruciate ligament reconstruction, **244:**222
Patellofemoral pressures in anterior displacement of tibial tuberosity, **238:**183
Pediatric orthopedics
cavovarus foot deformity, **247:**27
cerebral palsy management, **247:**55
congenital dislocation of hip, **247:**15
diagnosis of congenital hip dysplasia, **247:**3
leg lengthening, **247:**38
malignant bone tumors, **247:**67
pseudarthrosis of tibia, congenital, **247:**44
torsional deformities, **247:**61
trauma management, **247:**22
Pedicle screw penetration of anterior cortex, **245:**57
Pelvic support osteotomy, **249:**4
Pelvis
fractures of
closed treatment of, **240:**115
external fixation in, **241:**66
internal fixation of, **242:**83
osteoid osteoma and osteoblastoma of, **247:**261
partial resection of, limb-sparing, **242:**201
stability evaluation with radiography, **240:**63
Peptostreptococcus magnus in experimental arthroplasties, **241:**248
Periosteum, normal and heterotopic, **241:**265
Perthes disease
in Manchester terriers, inheritance of, **244:**281
somatomedin-C activity in, **244:**217
Pes cavus in Charcot-Marie-Tooth disease, **246:**273
Photography, Moiré, of shoulder arthrodesis position, **238:**117
Physical therapy compared to continuous passive motion in knee arthroplasty, **244:**239
Pigmented villonodular synovitis, **247:**243
of hip, **239:**154
of knee, **247:**208
Pinclamps in external fixators, mechanical performance of, **248:**246
Pinealoblastoma, extracranial metastasis of, **247:**256
Piroxicam, and joint stiffness after fractures, **247:**306
Pisiform dislocation, primary resection in, **241:**231
Plate fixation compared to external fixation in open tibial shaft fractures, **241:**89
Plating of fractures, reduction of stress shielding in, **246:**293
Plethysmography, impedance, in deep vein thrombosis detection, **248:**195
Polydioxanone implant, penetrating, affecting growth plate, **241:**300
Polypropylene in Achilles tendon rupture repair, **238:**204
Prostaglandin-induced hyperostosis, **246:**300
Prosthesis
above-knee, with CAT-CAM socket, **239:**249
in arthroplasty. *See* Arthroplasty
usage after major lower extremity amputations, **238:**219
Pseudarthrosis
of scaphoid bone, wedge osteotomy of radius in, **246:**16
of tibia, congential, **245:**16, **247:**44
Pseudocapsule of soft-tissue sarcomas, **246:**285
Pseudocyst, hemophilic, sepsis with, **244:**254
Pseudomeningocele after spinal fracture, **247:**74
Psoriasis, knee arthroplasty in, **248:**108
Putti-Platt procedure reconsidered, **246:**8
Pyogenic sacroiliac joint infection, **246:**146

Q

Quadriceps tendon graft in anterior cruciate ligament reconstruction, **246:**217

R

Radiation
exposure from fluorscopy, **248:**257
therapy in aneurysmal bone cyst, **243:**200
Radiculopathy, cervical, **246:**92
in spondylosis, surgery in, **239:**94
Radiography
in assessment of hip bone structure, **240:**200
and computed tomography in orthopedics, **242:**32
in evaluation of knee arthroplasty, **248:**9
of pedicle screw penetration of anterior cortex, **245:**57
in pigmented villonodular synovitis of knee, **247:**208
of posterior lumbar interbody fusion, **242:**158
of posterolateral bone grafting of tibia, **238:**209
in unstable pelvic ring disruption, **240:**63
of vertical settling in rheumatoid arthritis, **239:**128
Radioulnar joint, distal, articular disc of, **245:**123
Radius
fracture of
distal
and acute compartment syndrome during traction, **241:**234
with scaphoid fracture, **240:**232

of head, with elbow dislocations, **246:**126
and rotation after Rush pins and fracture brace, **240:**236
subluxation of head, recurrent, **246:**131
wedge osteotomy of, in wrist conditions, **246:**16
Reaming of femur
porosity after, **246:**305
temperature in, **241:**200
Reflex sympathetic dystrophy of lower extremity, **243:**80
Replantation of digits, leeches for venous drainage in, **245:**133
Residency training programs, orthopedic, **241:**257
Rheumatoid arthritis
atlantoaxial instability in, **241:**177
of cervical spine, **239:**121
hip arthroplasty in, bipolar, **244:**188
vertical settling in, **239:**128
Rotation
problems in childhood, **247:**61
after Rush pins and fracture brace in radius and ulna fractures, **240:**236
Rotational loosening, and failure of hip arthroplasties, **249:**122
Rush pins, fracture brace with, for radius and ulna fractures, **240:**236

S

Sacroiliac joint
pyogenic infection of, **246:**146
stabilization with threaded compression rods, **246:**165
Sacrum
ganglioneuroma of, **246:**102
stress fractures of, **243:**184
Sarcoma
Ewing's, diagnostic difficulties in, **240:**281
osteogenic. *See* Osteosarcoma
soft-tissue, pseudocapsule, **246:**285
Scaphoid bone
fracture with distal radius fracture, **240:**232
pseudarthrosis management with wedge osteotomy of radius, **246:**16
Scapulothoracic crepitus, painful, **247:**111
Sciatic nerve palsy risk after hip arthroplasty, **241:**197
Sciatica, percutaneous nucleotomy in, **238:**9
Scintigraphy in closed tibial shaft fractures, **245:**239
Scoliosis
brace treatment of, back shape in, **240:**157
and epidural morphine for postoperative pain, **249:**223
in neurofibromatosis
Cotrel-Dubousset instrumentation in, **245:**19, 24
surgery in, **245:**53
Sex hormones affecting skeletal muscle, **243:**306
Shoulder
accessory nerve palsy after thoractomy, **238:**237
acromioclavicular dislocations
coracoid process transfer in, **242:**184
screw fixation for, **243:**112
anterior acromioplasty
failed, **243:**106
results of, **247:**117
for subacromial impingement in young patients, **246:**111
arthrodesis
by external fixation, **247:**97
Moiré photography of, **238:**117
arthroplasty
bipolar implants in, **249:**227
Neer total shoulder system in, **242:**188
arthroscopic laser surgery of, **242:**47
axillary nerve in inferior capsular shift, **243:**100
dislocations
Hippocrates on, **246:**4
and Putti-Platt procedure reconsidered, **246:**8
dysplasia in nail-patella syndrome, **238:**112
frozen, office management of, **242:**177
function after tumor resection in proximal humerus
with bone reconstruction, **247:**101
with prosthetic replacement, **247:**106
glenohumeral movements in, **238:**107
glenoid-labral socket, **243:**122
hemophilic arthropathy of, advanced, **242:**63
magnetic resonance imaging of, **244:**48
major surgery with intraoperative autologous transfusions, **240:**137
mechanics affected by long head of biceps brachii, **244:**172
musculocutaneous nerve anatomy, **244:**166
scapulothoracic crepitus, painful, **247:**111
supraspinatus muscle pressure and EMG studies, **245:**102
Sickle cell disease, *Salmonella* septic and aseptic arthritis in, **248:**261
Silicone implants, bone reaction to, **245:**228
Silicone nitride ceramic, affecting cells and tissue, **244:**293
Sinus tarsi syndrome, arthrography in, **249:**248
Somatomedin-C activity in Perthes' disease, **244:**217

Somatosensory evoked potentials
in hip arthroplasty revision, **243:**138
in lumbar nerve root decompression, **245:**69
Spinal canal
cervical stenosis, brachydactylv with, **247:**80
loose cartilage in, simulating tumor, **238:**4
lumbar stenosis, surgery in, **246:**70
Spinal cord injuries
heterotopic ossification in, **242:**169
in children, **245:**303
transection with fracture of C4 and C5, **248:**158
Spine
arthrodesis
augmentation with bone morphogenetic protein, **243:**266
cervicalk in spondylosis, **239:**94
and epidural morphine for postoperative pain, **249:**223
macroporous calcium phosphate ceramic in, **248:**169
occipitoatlantoaxial, with rectangular rod, **239:**136
and radiography of posterior lumbar interbody fusion, **242:**158
cervical. *See* Cervical spine
coagulation disorders during surgery, **245:**83
Cotrel-Dubousset instrumentation in neurofibromatosis curves, **245:**19, 24
deformities in neurofibromatosis, **245:**29
lumbar. *See* Lumbar spine
magnetic resonance imaging of, **244:**78
pedicle screw penetration of anterior cortex, **245:**57
postoperative recurrent stress fracture in, **247:**87
pseudomeningocele after fracture, **247:**74
sacrum
ganglioneuroma of, **246:**102
stress fractures of, **243:**184
segmental instrumentation of
for neuromuscular deformities, **242:**164
short closed wire loops in, **247:**90
surgery affecting physical function, **244:**147
thoracolumbar fractures, anterolateral compression in, **240:**153
vertebrectomy in tumors, **245:**72
Spiral fractures, experimental, **243:**189
Spondylitis, ankylosing, and postoperative recurrent stress fracture in spine, **247:**87
Spondylolisthesis of axis, traumatic, **239:**47
Spondylolysis, direct repair of, **246:**86
Spondylosis, cervical
pathogenesis of, **239:**69
surgical management of, **239:**94
Sports activity, and knee disorders, **246:**238
Staphylococcus epidermidis in polymicrobial septic arthritis, **241:**245
Stress fractures
incidence after pretraining activity, **245:**256
of sacrum, **243:**184
spinal recurrence after surgery, **247:**87
Supraspinatus muscle pressure and EMG studies, **245:**102
Sutures
comparison of materials in, **242:**303
meniscal, in dogs, **243:**286
Sweden, hip fracture types in Malmö, **238:**139
Sympathetic dystrophy, reflex, or lower extremity, **243:**80
Sympathetic nerve fibers, compression in carpal tunnel syndrome, **247:**124
Synovitis, pigmented villonodular, **247:**243
of hip, **239:**154
of knee, **247:**208

T

Talipes equinovarus
posteromedial release in, **242:**265
results of surgery in, **248:**219
Talonavicular dislocation in diabetes, **240:**226
Tarsometatarsal joint, second, isolated injury of, **248:**210
Temperature in femoral neck and head, during reaming, **241:**200
Tendinitis of long head of biceps, **246:**117
Tendon
Achilles tendon repair with Marlex mesh, **238:**204
immobilization effects compared to continuous passive motion, **244:**265
of long head of biceps brachii, role of, **244:**172
patellar, rupture after total knee arthroplasty, **244:**233
tibial, posterior
dysfunction of, **239:**196
transposition of, **245:**223
Tendon grafts
in anterior cruciate ligament reconstruction, **244:**222; **246:**217
in bridging of flexor tendon defects, **242:**5[illegible]
Tenosynovial lipochondromatosis, **245:**220
Tenosynovitis, flexor, *Mycobacterium marinum* in, **238:**288
Tension-stress effect, and growth of tissue, **238:**249; **239:**263
Thoracolumbar spine, anterolateral compression fracture of, **240:**153
Thoracotomy, accessory nerve palsy after, **238:**237

Thrombosis, venous
detection with impedance plethysmography, **248:**195
prevention of
in hip surgery, **242:**212; **247:**163
in knee arthroplasty, **248:**152
Tibia
adamantinoma masked by fibrous dysplasia, **238:**294
anterior displacement of tuberosity affecting patellofemoral pressures, **238:**183
bone stiffening below plateaus of, **247:**193
compartment syndromes, **240:**97
early prophylactic bone grafting in high-energy fractures, **240:**21
external fixation in fractures, with controlled micromovement, **241:**36
high osteotomy
evaluation of patients for, **243:**157
gait after, **239:**185
Maquet dome, **243:**280
in osteoarthritis of knee, **243:**157; **245:**179; **248:**4
interporous hydroxyapatite as graft in plateau fractures, **240:**53
intramedullary devices for stabilization in fractures, **240:**87
lengthening osteotomy in metaphysis and diaphysis, **247:**297
nonunion of
bone loss, in Ilizarov treatment of, **241:**146
infection in, **245:**233
open fractures of
Orthofix fixator in, **241:**224
in shaft, and plates compared to external fixation, **241:**89
plateau fractures
cast brace in, **242:**26
closed treatment of, **240:**115
interporous hydroxyapatite as graft in, **240:**53
posterolateral bone grafting of, radiographys of, **238:**209
proximal osteotomy with new fixation device, **246:**250
pseudarthrosis of, congenital, **245:**16; **247:**44
pylon fractures in distal area, **240:**42
severe bone loss affecting knee arthroplasty, **248:**66, 71, 80
shaft fractures
closed, scintigraphy in, **245:**239
open, and plates compared to external fixation, **241:**89
torsion and rotational deformity assessment, **245:**199
tumors of, proximal, limb-sparing surgery in, **239:**231
vara, **246:**195
Tibial tendon, posterior
dysfunction of, **239:**196
transposition of, **245:**223
Tibialis muscle, anterior, herniation diagnosis with MRI, **244:**249
Tibiotalar dislocations without fractures, **239:**207
Torque, knee, after arthroplasty, **238:**174
Torsional deformities in childhood, **247:**61
Torsional loading, and failure of hip arthroplasties, **249:**122
Torsional strength of ankle, **246:**66
Tourniquet use in bone biposy, and venous drainage from femur, **241:**251
Trabecular microfractures in femur, **244:**208
Traction
and compartment syndrome in distal radius fracture, **241:**234
halo apparatus, in, **238:**4
application and maintenance of, **239:**12
Transfusions. *See* Blood transfusions
Transplantation of heart, hip fracture after, **245:**160
Trauma. *See also* Fracture
management in children, **247:**22
prevention of, role of orthopedist in, **240:**5
Tumor
adamantinoma of tibia masked by fibrous dysplasia, **238:**294
angiomatosis of bone, familial diffuse cystic, **238:**211
congenital soft-part chondroma, **244:**244
desmoplastic fibroma in bone with fibrous dysplasia, **247:**272
diagnostic difficulties in, **240:**281
ganglioneuroma of sacrum, **246:**102
giant cell. *See* Giant cell tumors
inducing periosteal bone formation, **241:**265
liposarcoma
and detection of skeletal metastases with MRI, **243:**204
juxtacortical, **243:**225
magnetic resonance imaging of, **244:**101
malignancies in bone, **247:**67
multiple hereditary osteochondromata, **239:**222
neuroepithelioma, malignant, **243:**220
neurofibromatosis. *See* Neurofibromatosis
and oncogenic osteomalacia, **244:**305
osteoblastic tumors of pelvis, benign, **247:**261
osteoblastoma of patella, **243:**216
osteoid osteoma. *See* Osteoma, osteoid

osteoma cutis with clavicle ossification disorder, **246:**106
osteosarcoma. *See* Osteosarcoma
pelvic, partial resection in, **242:**201
pinealoblastoma matastasis, **247:**256
prediction of pathologic fractures in, **249:**256
preoperative embolization of osseous metastases, **238:**302
pseudocapsule of soft-tissue sarcomas, **246:**285
tenosynovial lipochondromatosis of lower extremity, **245:**220
of tibia, proximal, limb-sparing surgery in, **239:**231
vertebrectomy in, **245:**72
Tumoral calcinosis in infants, **242:**272

U

Ulnar, fracture of
proximal nonunion of, infected, **240:**168
and rotation after Rush pins and fracture brace, **240:**236
Ulnar nerve, submuscular transposition of, **238:**225
Ultrasound, and cavitation affecting articular cartilage, **245:**288

V

Valgus deformity of knee, and orthoses for protection, **247:**175
Vascular injury in fracture-dislocation of lower extremity, **243:**30
Vertical settling in rheumatoid arthritis, **239:**128
Villonodular synovitis, pigmented, **247:**243
of hip, **239:**154
of knee, **247:**208
Vitamin D
metabolism of
in Paget's disease of bone, **243:**275
in severely handicapped patients, **245:**297
synergism with chemotherapeutic drugs in osteosarcoma, **247:**290

W

Wagner external fixator
in complicated extremity deformities, **241:**166
and histology of distraction osteogenesis, **241:**106
Wilson's osteotomy for hallux valgus, **240:**221
Wound healing. *See* Healing
Wrist
arthroscopic laser surgery of, **242:**48
articular disc of distal radioulnar joint, **245:**123
pain management with wedge osteotomy of radius, **246:**16
resection in dislocation of pisiform, **241:**231
scaphoid fracture with distal radial fracture, **240:**232
surgical approach for exposure of hook of hamate, **239:**217

Author Index—Volumes 238–249

A

Aaron, J. E., **243**:294
Aaron, R. K., **249**:209
Abatangelo, G., **241**:278, 286
Abellera, R. M., **245**:220
Abraham, E., **248**:61
Acker, J. H., **246**:165
Ada, J. R., **245**:233
Adams, W. V., **245**:43
Agostini, S., **241**:137
Aharonson, Z., **245**:256
Ahl, T., **245**:246
Ahnfelt, L., **249**:48
Ahsoh, K., **239**:217
Albert, M. C., **240**:232
Albert, M. J., **243**:148
Aldegheri, R., **241**:117, 128, 137
Al-Duri, Z., **244**:309
Alexander, A. H., **244**:158
Alexander, I. J., **246**:273
Allegra, M. P., **238**:245
Alonso, J., **241**:83
Amador, D. D., **242**:241
Amaranath, L., **249**:223
Amstutz, H. C., **242**:104; **249**:60
An, H. S., **238**:209
Anastasiou, E. D., **246**:65
Andersen, E., **241**:200
Andersen, M. A., **241**:309
Anderson, D. R., **242**:51
Anderson, G. B. J., **249**:48
Andersson, S., **238**:233
Andrish, J. T., **249**:223
Antman, K. H., **240**:26₁
Aoki, Y., **244**:258
Apel, D. M., **241**:183; **245**:160; **246**:156
April, E. W., **244**:166
Arendt, E. A., **244**:222
Argnani, F., **241**:146
Aro, H. T., **241**:24; **248**:246
Aronson, J., **241**:106; **243**:71
Aschliman, M., **246**:225
Ashworth, C. R., **242**:51
Atsumi, T., **246**:186
Ayers, W. V., **244**:158

B

Bach, A. W., **241**:89
Bainvel, J. V., **248**:169
Baker, K. J., **249**:183
Balasubramaniam, P., **244**:172
Balderston, R. A., **241**:203
Ballmer, F. T., **246**:250
Ballmer, P. M., **246**:250
Barber, S. D., **246**:238
Bargar, W. L., **243**:126; **249**:73
Barnes, C. L., **243**:57
Barnes, D., **244**:147
Barr, R. J., **248**:265
Barras, D., **245**:303
Barre, P. S., **240**:232
Barron, J., **238**:219; **248**:227
Barton, T. M., **246**:208
Bassett, C. A. L., **246**:172
Bassett, L. W., **244**:2, 17
Batzdorf, U., **244**:131
Bauer, T. W., **240**:181, 200; **249**:176
Beard, C., **242**:164
Beaty, J. H., **245**:16
Bechtold, J. E., **240**:236; **249**:159
Becker-Fluegel, M. W., **248**:93
Behrens, F., **241**:2, 5, 15, 48
Belfi, R. A., **245**:297
Belhobek, G. H., **240**:181; **249**:176
Bell, A. L., **240**:194
Bell, R. H., **242**:188
Benca, P., **246**:117
Benedetti, G. B., **241**:146
Benevenia, J., **238**:245
Bengtson, S., **245**:173
Bennett, J. T., **247**:15
Benum, P., **240**:244; **245**:261
Bereiter, H., **249**:12
Beresford, J. N., **240**:270
Bergenudd, H., **239**:306; **245**:210
Beris, A. E., **246**:65
Berklacich, F. M., **249**:30
Berkman, S. A., **242**:212
Berman, A. T., **245**:2, 49
Bernhardt, M., **246**:92
Berns, D. H., **244**:78
Berquist, T. H., **244**:101
Beskin, J., **239**:249
Bettelli, G., **247**:261
Betts, R. P., **248**:213
Betz, R. R., **245**:16, 53
Bhamra, M., **242**:184
Biagini, R., **247**:261
Biden, E. N., **248**:21
Bierbaum, B. F., **243**:126
Biggart, J. M., III, **243**:235
Bigler, G. T., **245**:138
Bigliani, L. U., **244**:166; **246**:111
Bjerg-Nielsen, A., **247**:163
Blalock, A., **240**:3
Blaser, S. I., **244**:78
Blasier, R. B., **243**:220
Blick, S. S., **240**:21
Bloch, D. A., **240**:173
Blomgren, G., **241**:248
Blumenthal, N. C., **247**:279
Bochner, R. M., **248**:310
Boettcher, W. G., **243**:126
Bokor, D., **243**:106
Bolhofner, B. R., **238**:122
Bonar, S. F., **247**:202
Booth, R. E., Jr., **241**:203; **248**:57
Borden, L. S., **243**:126
Böstman, O., **238**:195
Botte, M. J., **239**:12; **245**:110; **246**:100
Botti, P., **241**:278, 286
Bourne, R. B., **240**:42, 97; **247**:193, 220
Bovill, D. F., **240**:137
Bowen, J. R., **248**:163
Boyes, J. H., **242**:51
Bradley, F. B., **248**:195
Brady, L. P., **249**:97

Bragdon, C., 249:129
Brand, M. G., 248:71
Brand, R. A., 238:311; 240:194; 249:183
Bray, T. J., 240:9, 47, 312
Breed, A., 243:148
Breed, A. L., 247:74
Bridge, J. A., 247:272
Brighton, C. T., 242:285; 249:199
Brill, C. B., 245:10
Brindley, G. W., 244:176
Brody, G. A., 245:133
Brown, J. G., 248:195
Brown, M. D., 240:129; 245:69
Brown, T. D., 249:183
Browner, B. D., 240:63
Bruckenstein, R., 239:191
Brumback, R. J., 240:21
Bruun, C., 241:200
Bryan, R. S., 244:233; 248:120
Bucholz, R. W., 240:2, 53
Buck, B. E., 240:129
Buckley, S. L., 243:220
Buechel, F. F., 248:34
Bulstra, S., 245:228
Bulstra, S. K., 242:294
Bun, H., 239:286
Bunce, G. E., 249:209
Burgess, A. R., 240:21
Burke, D. W., 249:129
Burkus, J. K., 243:220; 244:158
Buurman, W. A., 242:294
Byrne, T. P., 239:12; 246:100

C

Cahalan, T. D., 246:136
Calhoun, J., 238:288
Calhoun, J. H., 241:257
Callaghan, J. J., 242:232; 247:152
Cameron, H. U., 240:206
Campanacci, M., 247:261
Campbell, E. D., 243:143
Caniggia, M., 238:131
Capanna, R., 247:261
Capello, W. N., 243:126; 249:56
Capra, S. E., 240:47
Carlson, J. M., 247:175
Carlton, A., 240:53
Carr, A. J., 240:157
Casden, A. M., 247:202
Catagni, M. A., 241:146
Cattaneo, R., 241:146
Catterall, A., 247:2
Cauwe, Y., 249:97
Cavadias, A. X., 246:30
Cendo, R. D., 249:227
Cha, E. J., 240:206
Chambers, R. B., 239:249
Champine, M. J., 240:105
Chan, F. L., 247:87
Chao, E. Y. S., 241:24; 246:136; 248:231, 246
Charels, K., 243:216
Chase, M., 248:210
Chavez, R., 239:249
Cherney, D. L., 242:98
Chin, H.-C., 248:231
Chin, R. C., 244:182
Ching, W., 244:293
Chiou, S. S., 244:182
Chisin, R., 245:256
Chism, S. E., 243:235
Chmell, S. J., 245:160
Chotivichit, A., 243:254
Chris, T., 243:106
Christen, S., 242:247
Christensen, C. M., 248:177
Christensen, S. W., 247:163
Claessens, H., 249:248
Clancy, M., 245:16, 53
Clark, R., 241:257
Clementz, B.-G., 245:199
Cobelli, N. J., 241:245
Coleman, S. S., 247:3
Coleman, W., 241:231
Collins, D. N., 243:48
Colón, C., 241:224
Colton, C. L., 247:22
Colwell, C. W., Jr., 248:21
Cone, J. B., 243:30
Connolly, J. F., 240:2, 115
Cook, D. A., 247:74
Cook, S. D., 245:57
Cooke, T. D. V., 245:179
Corces, A., 249:199
Cortivo, R., 241:278, 286
Coutts, R. D., 249:2
Coventry, M. B., 248:4
Cox, L. G., II, 243:189
Cracchiolo, A., III, 239:211
Crawford, A. H., 245:29
Crenshaw, A. H., Jr., 248:158
Crossett, L. S., 245:16
Culbertson, M. C., III, 241:251
Cummings, D. D., 245:156
Cummings, R. J., 247:27
Cunningham, J. L., 242:256

D

Dabezies, E. J., 246:165
Daculsi, G., 248:169
Dahl, R. J., 240:250
Dahners, L. E., 243:189; 246:293
Dalén, N., 245:246
D'Alessandro, D. F., 246:111
Daley, R. J., 248:71
Dalinka, M. K., 244:60
Daluga, D. J., 247:117
D'Ambrosia, R. D., 246:165
Dandy, W. E., 238:4
Daniel, D. M., 241:213
Daniels, A. U., 245:138
D'Antonio, J. A., 243:126
Dauhajre, T. A., 238:245
Davey, J. R., 245:150
Davidson, R. S., 243:230
Davis, A., 249:176
Davis, G. W., 238:71, 98
Dawson, E. G., 238:77; 243:266
De Coster, E., 243:216
De Galateo, A., 241:278, 286
de Graaf, R., 247:232
de Groot Swanson, G., 249:227
Delamarter, R., 242:26
Delaney, J. P., 248:278
Del Bue, M., 241:278
Dell, P. C., 243:65
Del Pizzo, W., 245:188
de No, L., 238:183
De Stoop, N., 249:248
deSwart, R., 248:152
Deutsch, A. L., 244:29
DeWaele, M. J., 246:234
Dewald, G. W., 240:250
DeWald, R. L., 238:241
Diaz-Faes, J., 242:272
Dietrich, S. L., 242:120
Dimitriou, J. K., 246:30
Dimon, J. H., III, 245:169
Dines, D. M., 248:108
Dinges, H. P., 238:282
DiSimone, R. E., 245:2, 49
Dobozi, W., 247:117
Dobozi, W. R., 246:156
Dooley, K. J., 246:300
Dorey, F. H., 245:188
Dorey, F. J., 242:277; 247:306
Dorph, S., 239:173
Dorr, L. D., 248:13, 112
Drummond, D. S., 243:148, 230
Drummond, J. C., 239:19
Drvaric, D. M., 246:300
Duckworth, T., 248:213
Ducommun, E. J., 247:124
Duralde, X. A., 246:111
Dyreby, J. R., Jr., 243:157

E

Easley, J. C., 239:145
Easley, K., 248:152
Ebert, T., 249:209

Ebraheim, N. A., **238**:209; **243**:166; **244**:249
Edeiken-Monroe, B. S., **240**:63
Edixhoven, P., **247**:232
Edwards, C. C., **239**:53
Eisenstein, S., **247**:90
Ellis, C., **238**:219
Elloy, M., **249**:97
Emerson, R. H., Jr., **249**:30
Endicott, M., **240**:47
Engh, C. A., **249**:141
Erichsen, E. S., **246**:305
Eskilsson, G., **248**:200
Etzkorn, J. R., **244**:305
Eulenberger, J., **248**:200
Evans, E. B., **241**:257
Ewald, F. C., **248**:9, 71, 135

F

Fallon, M., **244**:60; **249**:199
Fareed, D. O., **242**:177
Faris, P. M., **248**:145
Farnworth, T. K., **238**:225
Fast, A., **247**:124
Favero, K. J., **239**:40
Fazzalari, N. L., **244**:208
Feiglin, D. H. I., **240**:181
Fenton, P., **238**:209
Ferenz, C. C., **244**:254
Ferkel, R. D., **240**:210; **245**:188; **246**:266
Ferrandez, L., **238**:183
Ferris, B. D., **242**:184
Fielding, J. W., **239**:2, 47, 136
Figgie, H. E., III, **248**:98
Figgie, M. P., **248**:98
Finerman, G. A. M., **243**:254
Finlay, J. B., **247**:193, 220
Finsen, V., **240**:244; **245**:261
Fischer, S. P., **240**:210
Fischer, T. J., **243**:57
Fjeld, T. O., **247**:297
Flandry, F., **239**:249; **247**:208
Flatow, E. L., **244**:166
Fleming, B., **241**:95
Floyd, A. S., **241**:177
Foldes, J., **243**:275
Foley, P., **244**:281
Forster, I. W., **247**:168
Fox, J. M., **245**:188
Foy, M. A., **248**:254
France, E. P., **245**:138
Francis, C. W., **248**:152
Francis, R. M., **243**:294
Francis, W. R., Jr., **239**:47
Frassica, F. J., **248**:231
French, J., **247**:175
Friedman, M. J., **245**:188
Frost, H. M., **248**:283, 294
Fu, F. H., **241**:209; **246**:282
Fujiki, J., **238**:204
Fukubayashi, T., **243**:286
Fuster, S., **246**:86
Futami, T., **244**:244

G

Galinat, B. J., **243**:122
Gallivan, W. R., Jr., **242**:177
Gandolf, V. S., **244**:239
Ganz, R., **238**:122
Gärdsell, P., **240**:164
Garfin, S. R., **239**:2, 12, 19; **246**:100
Garg, A., **248**:135
Garland, D. E., **242**:169; **245**:303
Garrett, A., **239**:4
Gatchel, R. J., **244**:147
Gehlsen, J. A., **245**:83
Gei, G., **241**:278
Geissler, W., **241**:83
Genant, H. K., **244**:272
Gentz, C. F., **246**:126
Gepstein, R., **245**:69
Gerostathopoulos, N., **246**:22
Getty, C. J. M., **248**:213
Giacchetto, J., **249**:159
Giannikas, A. C., **246**:16
Giladi, M., **245**:256
Gilbert, J. A., **243**:189; **246**:293
Gilgoff, I., **245**:303
Gillquist, J., **247**:148
Gitelis, S., **239**:154; **246**:285
Gjerdet, N. R., **246**:305
Gold, R. H., **244**:2, 17
Goldberg, V. M., **248**:98
Golden, C., **238**:219
Goldsher, D., **243**:184
Goldstein, T. B., **238**:77
Gomez, W., **246**:282
Gonzalez, E. G., **243**:138
Goodman, S. B., **241**:221; **244**:182
Goodship, A. E., **241**:36
Goossens, M., **249**:248
Goossens, M., Jr., **249**:97
Gorman, P. W., **243**:57
Gorski, J. M., **244**:309
Gottschalk, F., **249**:219
Goulet, J. A., **240**:9
Graebe, A., **245**:239
Graeber, G. M., **242**:232
Graham, B., **243**:100
Graham, C. E., **238**:104
Graham, G. D., **247**:152
Grauer, J. D., **242**:277
Gregg, P. J., **245**:239
Grill, F., **241**:166
Grossman, H., **238**:302
Grotz, T., **243**:235
Guidolin, D., **241**:286
Gurd, A. R., **249**:223
Gustilo, R. B., **240**:236; **249**:159

H

Haake, D. A., **242**:212
Haas, S. B., **248**:93
Haave, Ø., **240**:244
Habermann, E., **243**:169
Hainau, B., **239**:178
Hall, T. R., **244**:119
Halpern, J., **238**:311
Hamonic, M., **238**:211
Hanaoka, H., **239**:286
Hankin, F. M., **242**:201
Hansen, S. T., Jr., **241**:89; **243**:17, 86
Harada, I., **247**:220
Harcke, H. T., **248**:163
Hardie, R., **247**:220
Harp, J. H., **243**:71
Harp, J. H., Jr., **241**:106
Harper, M. C., **243**:180
Harris, G. F., **242**:265
Harris, W. H., **245**:150; **249**:21, 129
Harrison, B. H., **241**:106
Hartofilakidis, G., **246**:48
Harvell, J. C., **241**:209
Hatano, N., **243**:200
Havel, P. E., **243**:166
Hawkins, R. B., **249**:44
Hawkins, R. J., **239**:47; **242**:188; **243**:106
Hayden, J. W., **245**:220
Hayken, G. D., **249**:199
Head, W. C., **249**:30
Heckman, J. D., **240**:5, 105
Hein, T. J., **248**:231, 246
Heiner, J. P., **247**:74
Heiple, K. G., **248**:98
Heitter, D., **244**:281
Helevirta, P., **241**:300
Heligman, D., **239**:154
Henderson, R. C., **248**:261
Henley, M. B., **240**:87
Henschel, A., **239**:178
Hensinger, R., **239**:47
Hentz, V. R., **245**:133
Heppenstall, M., **239**:4
Herberts, P., **245**:102; **249**:48
Herkowitz, H. N., **239**:94
Herold, H. Z., **242**:195
Hess, W. E., **245**:138
Hessel, T., **238**:233
Heyman, S., **243**:230

Highgenboten, C. L., 246:225
Hijikata, S., 238:9
Hippocrates, 241:3; 246:4
Hirvensalo, E., 238:195
Hite, M., 246:102
Ho, E. K. W., 247:87
Hodgson, B. F., 246:146
Hofmann, A. A., 245:138
Högfors, C., 245:102
Hohl, M., 242:26
Hokanson, J. A., 241:257
Holmes, R., 240:53
Holston, K. S., 244:239
Holt, R. T., 245:19
Hopkins, C. T., 245:169
Hoppenfeld, S., 238:92
Hopson, C. N., 245:156
Horne, G., 240:221
Houghton, G. R., 240:157
Howell, S. M., 243:122
Howlett, C. R., 244:293
Hozack, W. J., 241:203; 248:181
Hsu, H.-P., 246:260; 248:135
Hsu, R. W. W., 243:280
Huang, H. K., 243:254
Huang, T.-L., 248:61
Hughes, J. L., 241:83
Hughston, J. C., 247:208
Huiskes, R., 247:232
Hukuda, S., 246:106
Hulth, A., 239:311; 249:265
Humphries, D., 238:219
Hung, L. K., 247:101
Hungerford, D. S., 238:159
Hunter, R. E., 244:222
Husby, O. S., 246:305
Hutchinson, F., III, 238:219
Hvid, I., 238:167
Hynes, D., 249:227

I

Iannotti, J. P., 242:285
Iida, H., 244:244; 247:80
Ilizarov, G. A., 238:249; 239:263
Inglis, A. E., 248:108
Insall, J. N., 248:13, 15, 50, 93, 108
Ioannidis, T. T., 246:48
Iorio, R., 245:53
Irons, G. B., 242:269
Ivarsson, I., 239:185
Ivey, F. M., 241:257

J

Jackson, A., 246:225
Jackson, H., 240:63
Jackson, W. T., 238:209; 243:166
Jacobs, J. J., 247:256
Jacobs, M. A., 238:159
Jaffe, F. F., 247:202
Jakob, R. P., 242:247; 246:250
Jallay, B., 242:188
James, S. E., 238:43
Janes, P. C., 238:225
Janssen, H. F., 241:251
Jar-Ning, W., 249:227
Järvholm, U., 245:102
Jasmine, M. S., 246:293
Jasty, M., 249:129
Jefferson, R. J., 240:157
Jenkins, R. B., 240:250
Jensen, D. A., 239:191
Jergesen, H. E., 244:272
Jiang, C.-C., 248:50
Johansen, W. E., 242:43
Johnell, O., 238:139; 246:126
Johnson, E., 243:71
Johnson, E. E., 243:254
Johnson, G., 238:211
Johnson, J. R., 245:19
Johnson, K. A., 238:190; 239:196; 246:273
Johnson, M. E., 246:136
Johnson, R. P., 238:148
Johnson, W., 241:48
Johnson, W. L., 245:223
Jonsson, E., 238:117
Josefsson, P. O., 246:126
Jung, Y. B., 240:206

K

Kabo, J. M., 242:104, 277; 247:306; 249:60
Kadefors, R., 245:102
Kaiser, A. D., 249:122
Kambin, P., 238:24
Kaneda, K., 246:217
Kangarloo, H., 244:119
Kasahara, Y., 244:217
Kashtan, H., 245:256
Kasper, C. K., 242:60
Kastenbaum, D. M., 247:202
Kaufer, H., 242:201
Kawai, Y., 243:286
Kawaida, H., 239:128, 136
Keating, E. M., 248:145
Keene, J. S., 243:157
Kellam, J. F., 241:66
Kelly, P. J., 241:24
Kelman, G. J., 248:21
Kenan, S., 243:225
Kenwright, J., 241:36; 242:256
Kereiakes, J. G., 245:156
Keret, D., 248:163
Kernohan, W. G., 245:288; 248:195
Kettelkamp, D. B., 245:312
Khurana, J. S., 243:204
Kidroni, G., 243:275
Kiefer, G., 243:106
Kinast, C., 238:122; 248:200; 249:286
Kinoshita, G., 243:200
Kirk, N. T., 243:3
Kirschenbaum, I. H., 240:311
Kitaoka, H. B., 239:211; 243:172
Kitsugi, T., 244:217
Kjær, L., 247:163
Kjærsgaard-Andersen, P., 238:167; 248:189
Kleerekoper, M., 245:297
Klein, I., 248:112
Klein, M., 243:225
Knutson, K., 245:173
Kobori, M., 243:306
Kody, M. H., 244:265; 247:306
Koezuka, M., 239:299
Komai, S., 244:217
Kondo, M., 239:217
Kongsholm, J., 241:57
Koszyca, B., 244:208
Kotoura, Y., 247:290
Krackow, K. A., 238:159
Kraemer, W. J., 247:193
Kragh, F., 239:178
Kressel, H. Y., 244:60
Kristensen, K. D., 245:311
Kristensen, S. S., 248:189
Kristiansen, T., 241:95
Kroll, M. A., 239:191
Kumar, V. P., 244:172
Kuo, K. N., 242:265
Kurokawa, T., 247:97
Kuroki, Y., 246:186
Kurtz, D. M., 247:208
Kyle, R. F., 249:159

L

Lacy, J. N., 238:288
Lakatos, R., 240:21
Lampert, C., 249:12
Lang, P., 244:272
Langan, P., 248:310
Lange, R. H., 243:92
Langenskiöld, A., 246:195
Lantz, B. A., 243:20
La Rocca, H., 240:141
Larson, R. V., 245:216
Larsson, L.-E., 239:185
Laskin, R. S., 248:66
Latta, L., 248:181
Lau, H. C., 248:219
Lau, J. H. K., 248:219

Lauterbur, P. C., **244:**3
Lavini, F., **241:**117, 128
Law, J. K., **245:**145
Leach, A. B., **238:**43
Learmonth, I. D., **241:**177
Leathers, M. W., **243:**235
Lee, A. C., **239:**191
Lee, J. J. K., **245:**297
Leeson, M. C., **246:**102
Lefèvre, R., **238:**56
Lennox, D., **249:**209
Lennox, D. W., **238:**159
Leong, J. C. Y., **247:**87
Lesko, P., **240:**226
Lester, E. L., **245:**223
Lestini, W. F., **239:**69
Letsch, R., **241:**238
Leu, H., **238:**35
Leung, P. C., **247:**101
Leventen, E. O., **243:**172
Levin, M. N., **242:**265
Levine, A. M., **239:**53
Levine, M., **240:**181; **249:**176
Lewallen, D. G., **241:**24
Lewis, M. M., **243:**225
Lewis, S. M., **246:**172
Lidgren, L., **238:**117; **245:**173
Lin, P. M., **242:**158
Lindberg, H., **240:**164
Lindén, U., **247:**148
Lindgärde, F., **239:**306; **245:**210
Lini, E., **241:**286
Lintner, F., **238:**282
Lipscomb, A. B., **246:**131
Lipson, S. J., **239:**121
Liu, S., **246:**136
Logan, M. S., **245:**297
Loitz, B. J., **244:**265
Lombardi, A. V., **245:**53
Loomer, R., **243:**100
Loomer, R. L., **238:**112
Lopez-Barea, F., **242:**272
Lotke, P. A., **248:**57
Lovell, T. P., **243:**266
Lovell, W. W., **247:**27
Luck, J. V., Jr., **242:**60
Luck, J. V., Sr., **242:**4
Lugo, C., **245:**303
Lyden, J. P., **248:**310
Lyne, E. D., **245:**297
Lyon, J. J., **242:**232

M

MacEwen, G. D., **247:**15; **248:**163
Mader, J. T., **238:**288
Maeda, M., **243:**200
Maekawa, M., **244:**188
Mahboubi, S., **243:**230
Major, P., **238:**211
Mäkelä, A., **238:**195
Mäkelä, E. A., **241:**300
Makins, N. B., **243:**294
Malawer, M. M., **239:**231
Malchau, H., **249:**48
Malinin, T. I., **240:**129; **249:**30
Maloney, W. J., **245:**117, 133; **249:**21, 129
Mankin, H. J., **243:**204
Mann, R. J., **238:**225
Marandola, M. S., **246:**234
Marder, V. J., **248:**152
Margulies, J., **245:**256
Mariani, E. M., **245:**165
Markolf, K., **245:**188
Markolf, K. L., **246:**266
Markowitz, H. D., **246:**234; **248:**210
Maroon, J., **238:**71; **242:**311
Maroon, J. C., **238:**64
Marsh, H. O., **248:**240
Marshall, G. J., **242:**43, 120
Marshall, L. F., **239:**19
Martelli, M., **241:**278, 286
Martin, S., **248:**169
Martyak, T., **242:**232
Masada, M. P., **244:**182
Masaryk, T. J., **239:**109
Massin, P. **249:**141
Mast, J. W., **238:**122
Masuhara, K., **238:**204; **244:**258
Masumi, S., **239:**217; **244:**188
Matesi, D. V., **242:**265
Mathern, G. W., **244:**131
Matsuda, T., **246:**106
Matsumoto, K., **246:**106
Matsumoto, M., **247:**290
Matsunaga, S., **239:**136
Matta, J. M., **242:**83
Mauney, C., **248:**227
Maurer, R. C., **240:**226
Maxon, H. R., **245:**156
Mayer, H., **244:**147
Mayer, P. J., **245:**83
Mayer, T. G., **244:**147
McAllister, C. M., **241:**245
McAndrew, M. P., **243:**2, 20, 57, 65
McBroom, R. J., **238:**302
McCabe, J. M., **247:**152
McCann, S. B., **247:**208
McCarron, R. F., **241:**231
McCartney, E., **244:**293
McCluskey, W. P., **247:**27
McDevitt, R. M., **245:**156
McGivern, R. C., **248:**195
McGuire, M. H., **240:**281; **244:**305
McHale, K. A., **239:**231
McIlveen, S. J., **246:**111
McInerney, A., **240:**157
McKee, M. D., **247:**111
McLaren, A. C., **240:**153
McQuade, K. J., **245:**216
Meals, R. A., **240:**168; **242:**277; **244:**265; **247:**306
Mehdian, H., **247:**90
Meléndez, E. M., **241:**224
Mellman, M. F., **248:**112
Menczel, J., **243:**275
Merenda, J. T., **244:**305
Merkel, C., **248:**112
Merkow, R. L., **240:**236
Mero, M., **241:**300
Meske, N. B., **246:**225
Meyer, L. C., **248:**219
Meyers, O. L., **241:**177
Miki, T., **244:**244; **247:**290
Mikić, Ž. D., **245:**123
Milch, H., **249:**4
Milgrom, C., **243:**184; **245:**256
Miller, E. H., **245:**156
Miller, I. L., **247:**152
Miller, J., **248:**129
Miller, M. D., **245:**269
Miller, M. E., **245:**233; **249:**285
Miller, M. L., **248:**152
Millet, C. W., **246:**165
Mills, W., **249:**113
Miniaci, A., **240:**153; **246:**250
Mink, J. H., **238:**77, 83; **244:**29
Mirels, H., **249:**256
Mishra, D. K., **241:**213
Mitchell, D. G., **244:**60
Mitchell, J. B., **244:**158
Mize, R. D., **240:**77
Modic, M. T., **239:**109; **244:**78
Mody, G., **241:**177
Mollan, R. A. B., **245:**288; **248:**195, 265
Mølster, A. O., **246:**305
Monson, D. K., **243:**157
Monteiro, A., **238:**56
Mooar, L. A., **246:**238
Mooney, V., **244:**147
Moore, M. M., **243:**57, 65
Moore, T. J., **238:**219; **248:**227
Moran, M. C., **248:**15
More, R. C., **242:**104; **247:**306
Moretta, D., **246:**86
Morgan, E. L., **245:**57
Morizono, Y., **239:**128, 136
Moroz, T. K., **247:**193
Morreale, P., **238:**131
Morrell, S., **238:**237
Morrey, B. F., **244:**233; **248:**120; **249:**169

Morscher, E., 249:12
Morton, T., 239:154
Moseley, C. F., 247:38
Moseley, M. E., 244:272
Mousafiris, C., 246:57
Mubarak, S. J., 241:311
Mulier, J. C., 249:97
Mulier, M., 249:97
Murphy, C. P., 246:165

N

Nagano, A., 247:97
Naito, M., 241:234
Nakahara, H., 239:299
Nakamura, S., 241:190
Nakamura, T., 241:190
Nakano, K., 243:200
Nakashima, Y., 244:244
Nasser, S., 242:104; 249:60
Neff, J. R., 247:272
Nercessian, O. A., 243:138
Neustadt, J. B., 248:181
Nguyen, C., 245:179
Nickel, V. L., 239:4, 12
Nilsson, B., 238:233; 239:306; 245:210
Nilsson, O. S., 243:266
Ninomiya, S., 241:190; 247:127
Nishina, T., 244:198
Nishino, J., 243:286
Nixon, R. G., 244:176
Nord, C. E., 241:248
Noren, A., 238:233
Norris, T. R., 240:137
Noyes, F. R., 246:238
Nugent, J. T., 245:169
Nusbickel, F. R., 243:65

O

Obrant, K. J., 240:164
Ochiai, N., 247:97
O'Conner, D. O., 249:129
O'Donnell, J., 243:148
O'Driscoll, S. W., 248:278
Ogata, K., 241:234
Ohashi, Y., 248:27
Ohkoshi, Y., 246:217
Ohzono, K., 244:198
Okinaga, S., 247:97
Olerud, C., 241:57
Olive, R. J., Jr., 248:240
Oni, O. O. A., 245:239
Onik, G., 238:64, 71, 98; 242:311
Ono, K., 239:299; 244:198, 258
Ono, M., 240:236
Opdecam, P., 243:216
Orwin, J. F., 242:169
Osteaux, M., 243:216
Osterberg, P. H., 248:265
Otis, J. C., 239:191
Ozaki, J., 238:107, 204

P

Padgett, D. E., 248:27
Pafford, J., 239:168
Page, B. J., II, 239:161
Paget, S. A., 239:191
Paley, D., 241:95, 146
Palmerud, G., 245:102
Pantazopoulos, T., 246:57
Papachristou, G., 246:2, 16, 81
Pappas, M. J., 248:34
Paprosky, W. G., 241:183
Parikh, S., 247:124
Parks, W. J., 246:300
Passuti, N., 248:169
Paterson, D., 247:44
Patikas, A. F., 246:39
Paton, D. F., 242:184
Patwardhan, A., 246:156
Patzakis, M. J., 243:36
Pavlov, H., 246:208
Peacock, M., 243:294
Pearse, M., 245:239
Pedersen, N. W., 248:189
Pedersen, P., 248:189
Pellegrini, V. D., 248:152
Pellicci, P. M., 248:310
Pepin, J., 239:47
Perren, S. M., 248:200
Perrin, R., 238:302
Perry, J., 239:4, 249
Peterson, H. A., 239:222
Petitti, D. B., 246:150
Petropoulos, B. P., 246:70
Pezzoli, G., 241:286
Pflanze, W., 240:181
Phillips, W. A., 238:241
Pieters, G., 238:56
Pinzur, M. S., 246:156
Pisciotta, J. C., 238:174
Plauth, W. H., Jr., 246:300
Poka, A., 238:209; 240:21
Polly, D. W., Jr., 247:152
Pope, M., 241:95
Post, M., 245:89; 246:117
Pottenger, L. A., 238:241
Pravda, J., 243:169
Pritchard, D. J., 247:243; 248:231
Puzas, J. E., 245:269

R

Radin, E. L., 244:310
Ranawat, C. S., 248:27
Rand, J. A., 244:233; 245:165; 248:2, 120
Rang, M., 247:55
Rao, J. P., 238:245
Rao, V. M., 244:60
Ray, M. W., 248:158
Rechnagel, K., 239:178
Reckling, F. W., 241:197
Redl, H., 238:282
Reeck, C. C., Jr., 238:308
Reid, A. B., 238:211
Reid, I. L., 238:211
Reimann, I., 239:178
Renzi-Brivio, L., 241:137
Reynolds, H. M., Jr., 243:235
Richards, R. R., 247:111
Richardson, J. B., 242:256
Richmond, B., 240:200
Rickard, T. A., 242:51
Riley, S. A., 248:257
Ritter, M. A., 243:143; 244:239; 248:21, 145
Roberson, J. R., 238:237
Roberts, J. M., 243:157
Robertson, W. W., 243:148
Robertson, W. W., Jr., 241:251
Robicheaux, R. E., 246:165
Roca, A., 246:86
Roca, J., 246:86
Rodrigo, J. J., 243:235
Rodriguez-Gonzalez, J. I., 242:272
Rodriguez-Peralto, J. L., 242:272
Rogez, J. M., 248:169
Rokkanen, P., 238:195; 241:300
Rooks, M. D., 238:237
Rorabeck, C. H., 240:97; 247:193, 220
Rosa, R. A., 248:34
Roscoe, M. W., 238:302; 241:221
Rose, R. M., 244:310
Rosenberg, A. E., 243:204; 247:256
Rosenstein, B. D., 248:261
Rosenthal, D. I., 243:204
Rosenthal, H., 247:272
Rosier, R. N., 245:269
Ross, J. S., 239:109
Roth, A. I., 240:181
Rothman, R. H., 241:203, 312
Rougraff, B. T., 238:308
Rowley, D. I., 248:213
Rudan, J., 245:179
Ruggieri, P., 247:261
Rullo, D. J., 246:234

Ryan, L. M., 240:261
Rydholm, D., 238:233
Rydholm, U., 238:117
Rykkje, J. M., 246:305

S

Sagarra, J., 238:183
Saito, M., 244:198
Saito, S., 244:198
Sakamoto, Y., 244:258
Sakou, T., 239:128, 136
Salter, R. B., 242:12; 248:278
Samson, J. C., 241:278
Sangeorzan, B. J., 243:86
Sanger, W. G., 247:272
Santini-Araujo, E., 238:294
Saraste, M., 238:233
Satku, K., 244:172
Sattel, A. B., 249:227
Saucedo, T., 242:83
Savolaine, E. R., 238:209
Savory, C. G., 242:232; 247:152
Schaffer, J. L., 238:24
Schajowicz, F., 238:294; 240:281; 246:285
Schatzker, J., 241:221; 245:282
Schemitsch, E., 240:221
Schiavinato, A., 241:286
Schiesser, A., 238:282
Schink-Ascani, M., 246:172
Schlag, G., 238:282
Schmalzried, T. P., 243:254; 246:266
Schmidt, S. A., 248:189
Schmit-Neuerburg, K. P., 241:238
Schmitt, E. W., 246:300
Schnaser, A. M., 243:235
Schneider, E., 248:200
Schneider, H. J., 245:156
Schneider, W. T., 244:222
Schoifet, S., 248:120
Schreiber, A., 238:35
Schreiber, R. R., 242:32
Schultz, R. B., 248:177
Schurman, D. J., 238:311; 240:173; 244:182; 245:117
Schutzer, S. F., 242:247
Schwartz, C. M., 241:183
Schwartz, H. S., 240:250; 247:243
Schwarz, N., 238:282
Scott, M. A., 247:220
Scott, R. D., 248:13, 71
Scott, W. N., 248:13
Scuderi, G. R., 248:15, 93
Sculco, T. P., 239:191
Sculte-Mönting, J., 244:272
Seale, K. S., 243:80
Seeger, L. L., 244:2, 7, 48
Segal, M. R., 240:173
Seger, B. M., 248:177
Selvik, G., 245:246
Sernbo, I., 238:139
Seto, Y., 244:217
Shackford, S. R., 239:19
Shahabpour, M., 243:216
Shamir, S., 243:275
Shepperd, J. A. N., 238:43
Sherman, R. E., 240:236
Shikata, J., 244:244; 247:80
Shimoyama, S. T., 245:303
Shinohara, N., 247:106
Shives, T. C., 248:231
Shufflebarger, H. L., 245:24
Shull, S., 248:152
Sidles, J. A., 245:216
Sidney, S., 246:150
Siegel, R. D., 240:261
Sim, F. H., 248:231
Simon, S. R., 238:174
Simurda, M. A., 245:179
Sinha, A. K., 242:269
Skalley, T. C., 245:57
Slama, T. G., 238:308
Smith, C. F., 242:2, 43
Smith, D. G., 241:183
Smith, R. W., 245:3
Smith, S., 244:147
Sneppen, O., 238:167
Snyder, G. M., 246:92
Snyder, S. J., 245:188
Sobel, M., 248:98
Soriano, R. M. G., 242:256
Soucacos, P. N., 246:65
Spector, M., 248:135
St. Louis, E., 238:302
Stadeager, C., 247:163
Staheli, L. T., 247:61
Stambough, J. E., 242:285
Stamos, K., 246:48
Stanitski, C. L., 241:209
Stark, H. H., 242:51
States, J. D., 240:5
Stauffer, E. S., 239:30
Stearns, K. L., 248:87
Steel, H. H., 245:16, 53
Steen, H., 247:297
Steenhoudt, H., 249:97
Stein, H., 243:184
Stein, M., 245:256
Steinberg, D. R., 249:199
Steinberg, M. E., 243:126; 244:60; 249:199
Steiner, M. E., 238:174
Stelling, F. H., III, 247:13
Stener, B., 245:72
Stephenson, R. B., 242:201
Stern, M. B., 238:2, 50
Stern, S. H., 248:108
Sternau, L., 238:64
Stevens, D. B., 242:164
Stevens-Andersson, A., 238:233
Stevenson, S., 244:281
Stewart, C. L., 241:106
Stinchfield, F. E., 243:138
Stine, R., 246:208
Stine, S. B., 245:43
Stockley, I., 248:213
Stoll, J. E., 245:282
Stoltz, M. R., 242:120
Stone, M. L., 241:213
Strafford, B., 249:199
Strom, D. E., 239:196
Strömberg, C., 249:48
Strum, G. M., 245:188
Stulberg, B. N., 240:181, 200; 248:152; 249:79, 176
Stulberg, S. D., 243:126; 249:79
Stürmer, K. M., 241:238
Suezawa, Y., 238:35
Sugamoto, K., 239:299; 244:258
Sugimoto, K., 238:204
Sugiyama, H., 249:122
Sundaram, M., 244:305
Sutter, L. V., 242:43
Suzuki, S., 247:290
Svensson, O., 241:248
Swanson, A. B., 249:227
Sweetnam, R., 247:67
Swienckowski, J., 239:161
Swiontkowski, M. F., 243:41
Swissa, A., 245:256
Symeonides, P. P., 246:8

T

Takagishi, K., 247:106
Takaiwa, H., 243:200
Takaoka, K., 239:299; 244:258
Takeda, N., 247:80
Tamai, S., 238:204
Tanaka, C., 247:290
Tanaka, H., 247:290
Tanner, C. M., 240:173
Tanzer, M., 248:129
Tateishi, H., 243:200
Teitge, R. A., 244:310
Temple, S. D., 243:48
Templeton, A., 246:285
Terry, A., 244:147
Tew, M., 247:168
Theodorou, S. D., 246:22

Thomas, R., 246:285
Thompson, J. D., 246:131
Thorson, E., 243:235
Thurnher, M., 238:282
Tomiyama, Y., 246:217
Toohey, J. S., 239:207
Tooze, S. E., 249:199
Torg, J. S., 244:309; 246:208
Torisu, T., 239:217; 244:188
Törmälä, P., 238:195; 241:300
Torres, A., 242:272
Totterman, S., 248:152
Touliatos, A. S., 246:65
Tountas, A. A., 243:195
Tozzi, J. M., 244:254
Trancik, T., 249:113
Trivella, G., 241:117, 128
Tronzo, R., 248:181
Tsou, P. M., 243:112
Tsuda, T., 239:299; 244:258
Tsuzi, T., 247:290
Turner-Smith, A. R., 240:157

U

Ueba, Y., 247:80
Unni, K. K., 247:243
Urist, M. R., 242:137; 243:254, 266
Usabiaga, J., 238:183
Utsunomiya, K., 244:188

V

Vaes, G., 241:309
Vailas, A. C., 244:265
Vainionpää, S., 238:195; 241:300
Van Der Linden, A. J., 242:294
Van Der Straeten, C., 249:248
Vangsness, C. T., 242:43
van Horn, J. R., 247:261
Van Peteghem, P. K., 239:40
Van Tiggelen, R., 243:216
Vasseur, P. B., 244:281
Verhaar, J., 245:228
Vermeulen, A., 245:228
Vernon-Roberts, B., 244:208
Viegas, S. F., 238:288
Vihtonen, K., 238:195; 241:300
Villa, A., 241:146
Vinson, N., 249:113
Volpin, G., 243:184
Von Stein, D. E., 245:156

W

Waddell, J., 245:282
Walenkamp, G., 245:228
Walenkamp, G. H. I. M., 242:294
Walker, P. S., 246:260; 248:135
Wallace, R. G. H., 248:265
Wallace, W. A., 247:168
Walton, M., 242:303
Walz, M., 241:238
Ward, P. E., 248:195
Warner, W., 245:16
Washington, E., 248:61
Waters, R. L., 239:249
Watson, J. T., 240:200
Watson, P., 245:288
Webb, L. X., 245:233
Wedge, J. H., 243:126
Weiker, G. G., 249:223
Weisz, I., 240:157
Wendeberg, B., 246:126
Westholm, F., 248:120
Westin, G. W., 242:98
Wethelund, J.-O., 238:167
Wetzel, F. T., 240:141
Whitecloud, T. S., 245:57
Whitelaw, G. P., 248:210
Whitelaw, G. P., Jr., 246:234
Whiteside, L. A., 239:145, 168; 242:241; 247:138; 248:80; 249:122
Wiedel, J. D., 245:145
Wiesel, S. W., 239:69
Wilde, A. H., 248:87
Wilkins, J., 243:36
Wille-Jørgensen, P., 247:163
Williams, C. D., 241:251
Wilmet, E., 238:56
Windsor, R. E., 248:15, 93, 108
Wixson, R. L., 249:79
Włodarski, K. H., 241:265
Woldenberg, L. S., 244:249
Woo, S. L.-Y., 239:12
Wood, G. W., II, 248:158
Wood, M. B., 242:269; 245:110
Wood, M. W., Jr., 248:158
Woolson, S. T., 244:182
Worsing, R. A., Jr., 239:207
Wright, J., 247:55
Wukich, D. K., 242:232
Wyatt, M. P., 248:21
Wyatt, R. W. B., 245:138
Wyder, D., 248:200
Wyly, J. B., 246:300

Y

Yabe, H., 239:286
Yamamuro, T., 243:306; 244:244; 247:80, 290
Yamano, K., 246:186
Yang, Q. M., 243:235
Yasuda, K., 246:217
Yoon, H., 249:223
Yoshikawa, H., 244:258
Yubero, J., 238:183

Z

Zalenski, E. B., 249:129
Zaoussis, A. L., 246:39
Zechmann, J. P., 241:197
Zeiss, J., 244:249
Zemel, N. P., 242:51
Zernicke, R. F., 244:265
Zillmer, D., 241:245
Zimmer, T. J., 238:190